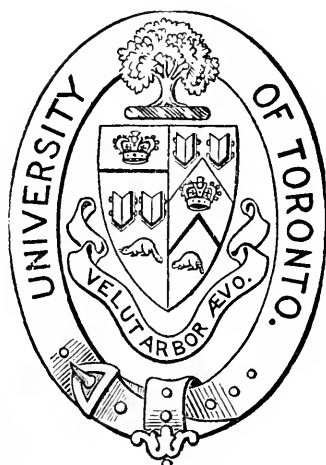


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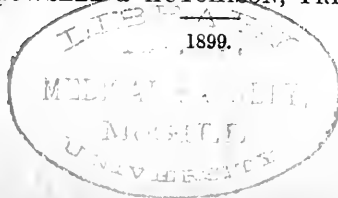
FACULTY OF MEDICINE.

CALENDAR.



SESSION, 1899-1900.

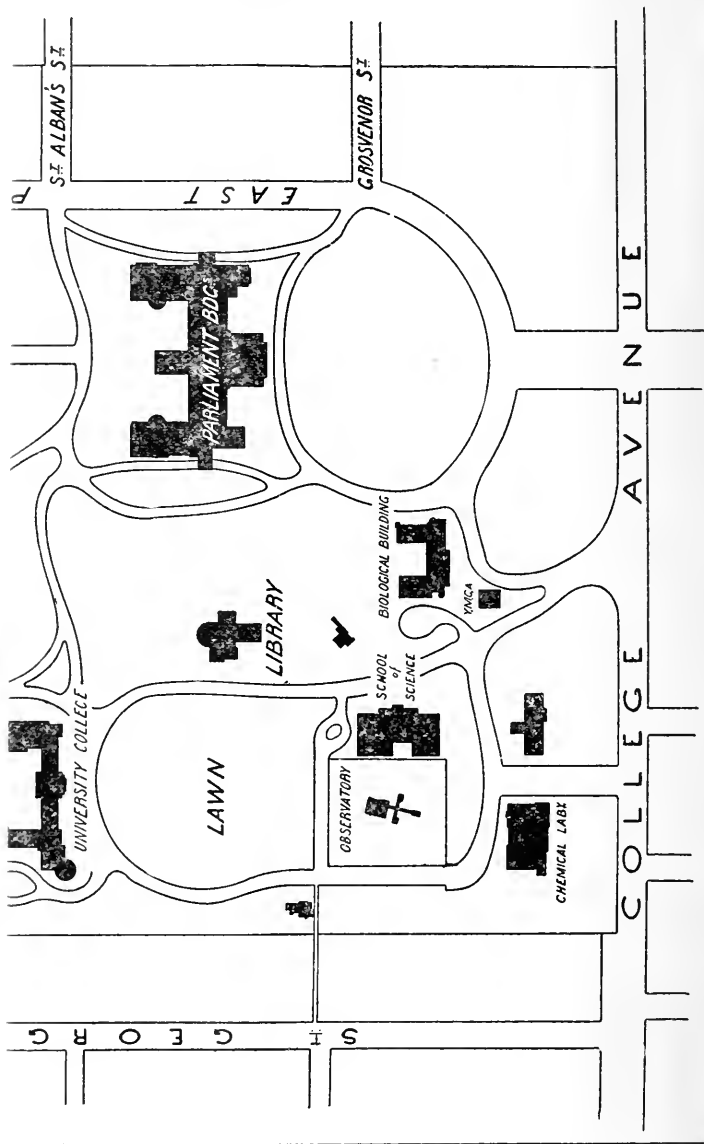
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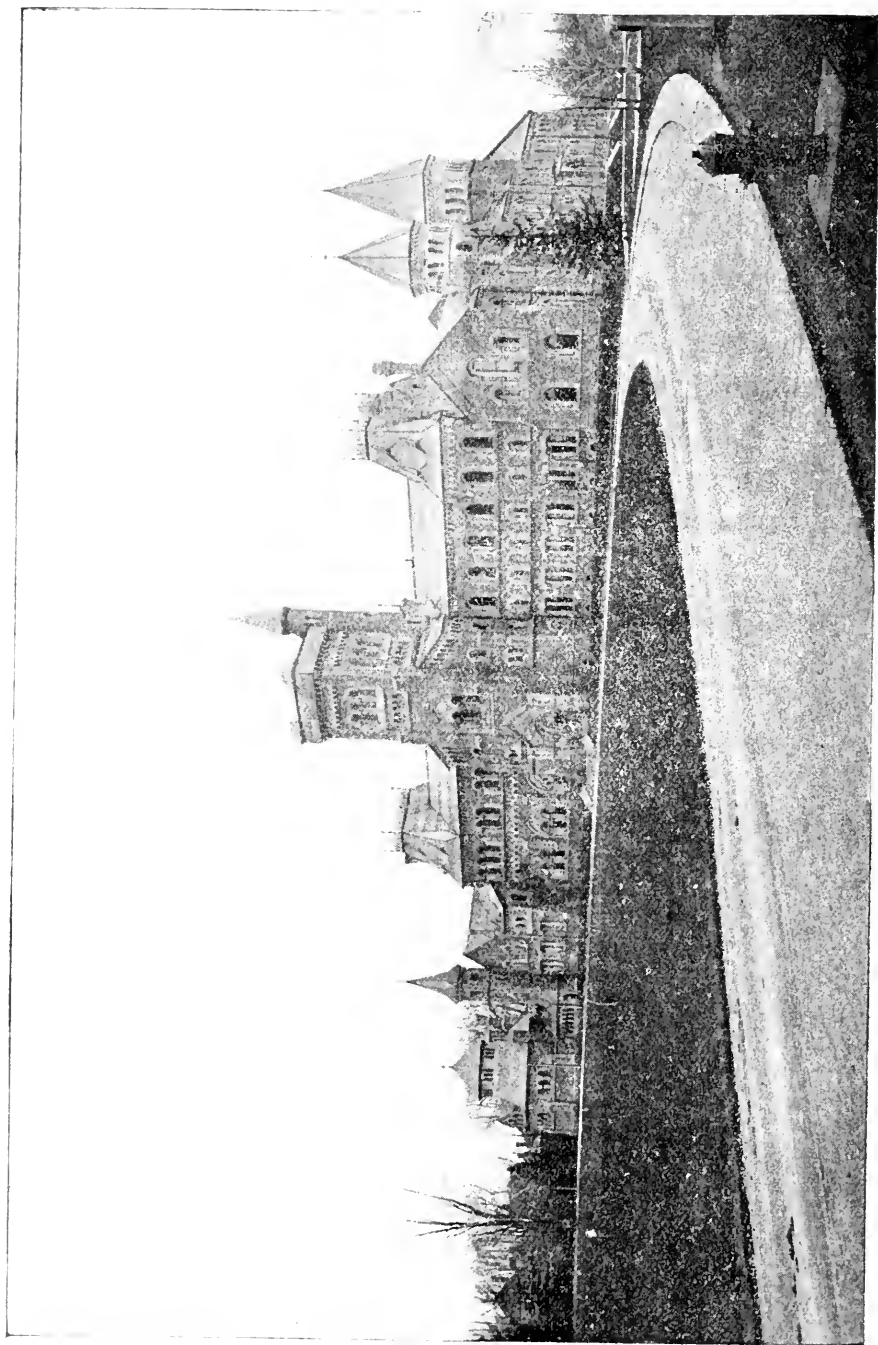
UNIVERSITY OF TORONTO

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Main Building.

University of Toronto.

FACULTY OF MEDICINE.

CALENDAR.



SESSION, 1899-1900.

TORONTO:
ROWSELL & HUTCHISON, PRINTERS.

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TORONTO: ROWSELL AND HUTCHISON, PRINTERS, KING STREET.

CALENDAR-1899

1900

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CALENDAR, 1899-1900.

Meetings of the University Council are held on the last Monday of September, and on the first Monday of other months. Meetings of the University College Council are held on the fourth Friday of September, and on the first Friday of other months. Meetings of the Senate are held on the second Friday of each month, and meetings of the Faculty of Medicine on the first Friday of each month from October to May, inclusive.

- 1899—Sept. 14—Supplemental Examinations in all Faculties begin.
 Oct. 2—Academic year begins.
 Registration of Students in Arts by the Registrar; and in
 Medicine by the Secretary of the Medical Faculty;
 enrolment in classes by the various Professors.
 Oct. 3—Lectures in Arts and Medicine begin.
 Dec. 18-21—Term Examinations.
 Dec. 21—Michaelmas Term ends.
 Dec. 25—University Buildings closed.
 1900—Jan. 1—University Buildings closed.
 Jan. 8—Easter Term begins.
 Lectures in Arts and Medicine begin.
 Feb. 28—University Buildings closed.
 March 21—Annual Examinations in Dentistry begin.
 April 9—Annual Meeting of Medical Faculty.
 April 13—University Buildings closed.
 April 14—Examinations in School of Practical Science begin.
 April 17-20—Term Examinations.
 April 20—Lectures in Arts end.
 Lectures in Medicine end.
 May 1—Annual Examinations in Arts, Law, Medicine, and Agriculture begin.
 Last day for presentation of M.A. Theses.
 May 4—Annual Examinations in Applied Science begin.
 May 10—Annual Examinations in Music begin.
 May 24—University Buildings closed.
 June 1—Applications for Fellowships.
 June 6—Senior Matriculation Examinations in Arts begin.
 June 8—University Commencement.
 July 1—University Buildings closed.

N.B.—Candidates are required to give notice to the Registrar of intention to present themselves at the annual examinations in Arts at least six weeks before the commencement of the examinations. At the examination for Matriculation Scholarships similar notice must be given on or before the 24th May, and at any other University examination at least three weeks before the commencement of the examination.

University of Toronto.

FACULTY OF MEDICINE.

The thirteenth session since the re-establishment of the Medical Faculty of the University of Toronto will commence on Monday, 2nd October, 1899. The opening lecture will be delivered by Professor Primrose, in the Biological Department at 8.30 p.m.

Distinct and separate courses of instruction are provided for each of the four years of the medical curriculum.

The course of instruction given by the Faculty prepares students primarily for the degree of M.B. of the University of Toronto, and for the license of the Ontario College of Physicians and Surgeons, but it fulfils the requirements of other Canadian and British Universities and it aims at giving the student such a training in the sciences as is now exacted of all those who desire to obtain any British medical qualification in addition to a Canadian one.

All the lectures and demonstrations of the First and Second years will be given in the Biological, Chemical, Physical, and Anatomical laboratories and lecture-rooms of the University.

Lectures and demonstrations in the subjects of the Third and Fourth years will be given in the building of the Medical Faculty, on the corner of Gerrard and Sackville streets, opposite the Toronto General Hospital.

The Faculty has always aimed at giving as practical a character as possible to the instruction in all the years, and has in all the arrangements for teaching medicine and surgery especially emphasized the instruction given at the bedside. As a result of this endeavour, more than two-thirds of the instruction in the Third and Fourth years is given in the wards and in the Pathological and Clinical laboratories. As

in surgery and in medicine, so in pathology, in obstetrics and in gynaecology the instruction is thoroughly practical.

Clinical instruction will, as heretofore, be given in the Toronto General Hospital, and the Mercer Eye and Ear Infirmary, the Burnside Lying-in Hospital, the Hospital for Sick Children, St. Michael's Hospital and other medical charities of Toronto. The facilities for clinical instruction have been very greatly improved, and the student has the fullest opportunities for making a thorough examination of all the cases of disease which are found in the wards and out-patient rooms of the hospitals. The students are arranged in small classes (of from twelve to fourteen) in order to facilitate this, and to enable the clinical teachers to give as much personal instruction as possible to each student.

The Faculty has in the General Hospital a laboratory for Clinical Pathology and Chemistry, which has been furnished with microscopes and all apparatus required for the examination of pathological fluids and specimens; and students, when they act as clinical clerks, will be admitted to all the privileges of the laboratory.

In the Department of Anatomy, the arrangements for instruction are now unsurpassed. In addition to other methods of illustrating Anatomy, there will be courses in which the projection microscope will be employed to demonstrate to large classes the relational structure of the different parts of the body as exhibited in frozen sections. In *Materia Medica* it is also proposed to make the course of instruction conform to the most advanced methods.

The Faculty has spared no expense in making the arrangements for medical instruction perfect, and is convinced that these, added to the unrivalled facilities offered by the University laboratories for the study of Chemistry, Physics, Biology, Anatomy, Histology and Physiology, will furnish the fullest opportunities to the student for acquiring a medical education of the most advanced and most progressive character.

Attention is directed to the recent establishment of a Museum of Hygiene.

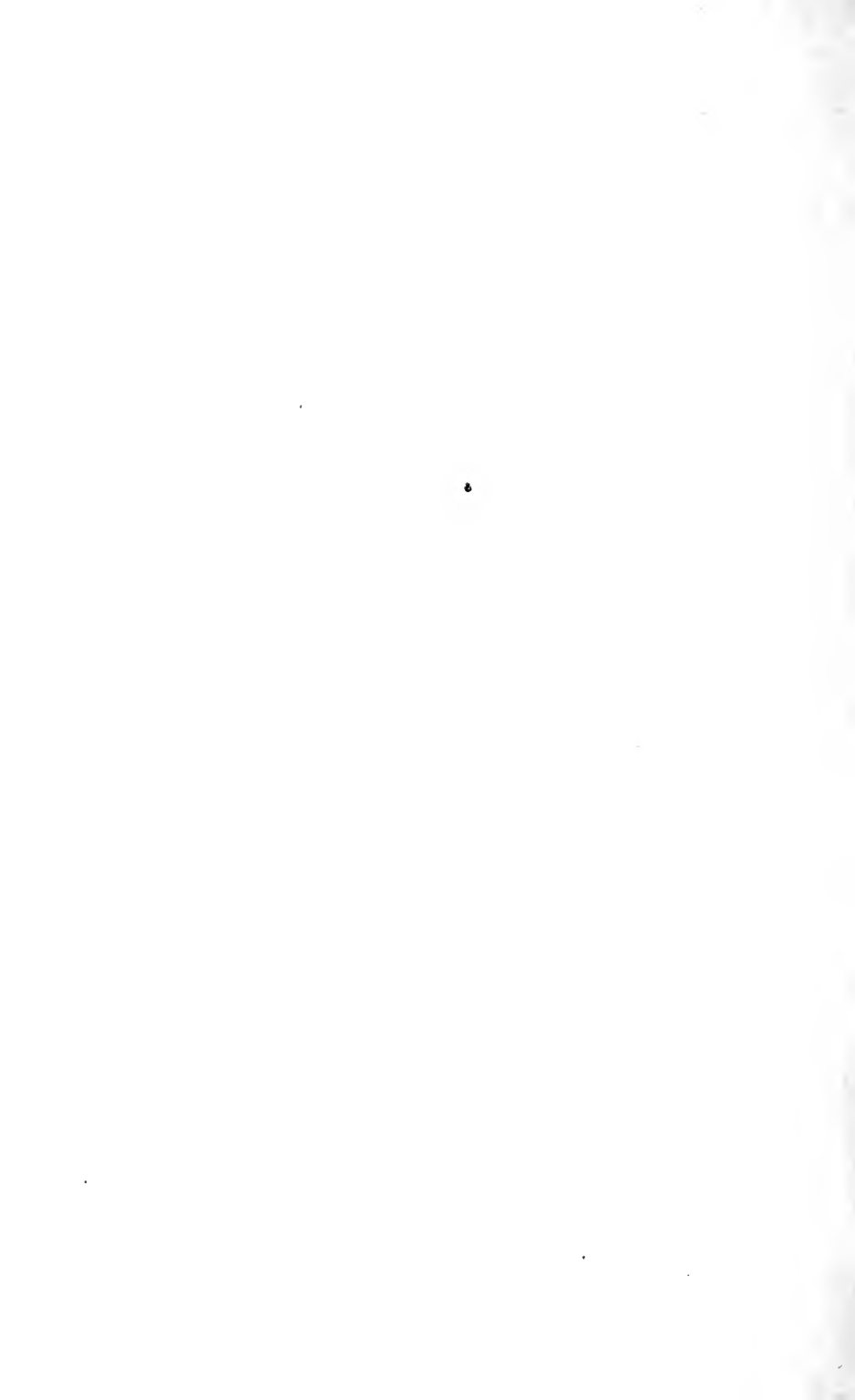
As all laboratory work and clinical instruction commence immediately on the opening of the session, the Faculty has found it necessary to insist on an early attendance of the students in all the years.

The laboratory classes are made up in the first week of the session, and to be enrolled therein, it is in the student's interest that he should apply early.

Students intending to proceed to the Degree of M.B. in the University of Toronto will find stated in the Appendix the requirements for Matriculation. Those who are graduates in Arts of any British or Canadian University, or who are undergraduates in the Faculty of Arts or of Law in the University of Toronto or have been registered as medical students in the College of Physicians and Surgeons of Ontario are exempt from this Matriculation. A student desirous of obtaining a license to practice medicine in Ontario must pass the July Matriculation Examination of the University of Toronto, including the subjects Physics and Chemistry, which entitles him to be registered as a medical student. If, however, he does not wish to obtain the Ontario license and yet intends to proceed to the Degree of M.B., he may be registered as a matriculated medical student in the University on passing either the July or the September Matriculation Examination. He may delay presenting himself for this examination until any time before the second examination for the Degree of M.B., but, if possible, he should matriculate before commencing his medical studies.

A Fifth year of study is now demanded by the Ontario Medical Council. To meet this requirement a course of instruction will be arranged; students taking this course will have the opportunity of doing special work in the Hospitals and laboratories, and they will be permitted to attend whatever didactic lectures they may desire.

For all information not covered by this announcement, the intending student should apply to Professor A. Primrose, Biological Department, University of Toronto.



The Faculty.

Professores Emeriti.

JAMES THOREURN, M.D.	W. W. OGDEN, M.D.
M. H. AIKINS, B.A., M.D.	J. H. RICHARDSON, M.D.

Professors, Lecturers and Demonstrators.

Dean : R. A. REEVE, B.A., M.D., Tor.

Secretary : A. PRIMROSE, M.B., C.M., Edin.

ANATOMY.

Professor, and Director of the Anatomical Department : A. PRIMROSE, M.B., C.M., Edin.

Associate-Professor of Surgery and Clinical Surgery : H. WILBERFORCE AIKINS, B.A., M.B., Tor.

Lecturer and Demonstrator : F. N. G. STARR, M.B., Tor.

**Assistant-Demonstrators* :

A. R. GORDON, M.B., Tor.
 R. D. RUDOLF, M.D., C.M., Edin.
 A. A. SMALL, M.B., Tor.
 CLARENCE L. STARR, M.B., Tor.
 K. C. McILWRAITH, M.B., Tor.
 W. J. MCCOLLUM, M.B., Tor.

SURGERY.

Professor of Surgery and Clinical Surgery : I. H. CAMERON, M.B., Tor.

Associate-Professor of Surgery and Clinical Surgery : G. A. PETERS, M.B., Tor., F.R.C.S., Eng.

Associate-Professors of Clinical Surgery : A. PRIMROSE, M.B., C.M., Edin. ;
 B. SPENCER, M.D., Tor. ; L. M. SWEETNAM, M.B., Tor. ;
 H. A. BRUCE, M.B., Tor., F.R.C.S., Eng. ; W. OLD-
 RIGHT, M.A., M.D., Tor.

PATHOLOGY.

Professor of Pathology and Bacteriology : JOHN CAVEN, B.A., M.D., Tor.

Lecturer on Bacteriology : J. J. MACKENZIE, B.A., M.B., Tor.

**Démonstrator* : JOHN AMYOT, M.B., Tor.

**Assistant-Demonstrator* : JOHN STENHOUSE, M.A., B.Sc., Edin., M.B., Tor.

Laboratory Assistant in Bacteriology : W. GOLDIE, M.B., Tor.

MEDICINE.

Professor of Medicine and Clinical Medicine : J. E. GRAHAM, M.D., Tor., M.R.C.P., Lond.

Associate-Professor of Medicine and Clinical Medicine : A. MCPHEDRAN, M.B., Tor.

*The Demonstrators and Assistant-Demonstrators here mentioned are those of the Session 1898-99. They are eligible for reappointment.

Lecturers on Disease in Children and Clinical Medicine: H. T. MACHELL, M.D., Tor. ; W. B. THISTLE, M.B., Tor.

Lecturers in Clinical Medicine: R. J. DWYER, M.B., Tor. ; G. BOYD, B.A., M.B., Tor.

MATERIA MEDICA AND TAERAPEUTICS.

Professor: JAMES M. MACCALLUM, B.A., M.D., Tor.

Associate-Professor of Pharmacology and Therapeutics: C. F. HEEBNER, Phm.B., Tor.

GYNÆCOLOGY AND OBSTETRICS.

Professor of Gynecology: UZZIEL OGDEN, M.D., Tor.

Professor of Obstetrics: A. H. WRIGHT, B.A., M.D., Tor.

Associate-Professor of Gynecology: J. F. W. ROSS, M.B., Tor.

OPIHTHALMOLOGY, OTOTOLOGY, LARYNGOLOGY AND RHINOLOGY.

Professor of Ophthalmology and Otology: R. A. REEVE, B.A., M.D., Tor.

Associate-Professor of Ophthalmology and Otology: G. H. BURNHAM, M.D., Tor., F.R.C.S., Edin.

Associate-Professor of Laryngology and Rhinology: G. R. McDONAGH, M.D., Tor.

HYGIENE.

Professor: W. OLDRIGHT, M.A., M.D., Tor.

TOXICOLOGY.

Associate-Professor: W. H. ELLIS, M.A., M.B., Tor.

MEDICAL JURISPRUDENCE.

Associate-Professor: BERTRAM SPENCER, M.D., Tor.

Lecturer: HON. DAVID MILLS, LL.B., Q.C.

MENTAL DISEASES.

Extra-Mural Professor: DANIEL CLARK, M.D., Tor.

BIOLOGY AND PHYSIOLOGY.

Professor of Biology: R. RAMSAY WRIGHT, M.A., B.Sc., Edin.

Professor of Physiology: A. B. MACALLUM, M.A., M.B., Tor., Ph.D., Johns Hopkins.

Assistant-Demonstrator in Biology: R. R. BENSLEY, B.A., M.B., Tor.

CHEMISTRY.

Professor: WILLIAM H. PIKE, M.A., Oxon., Ph.D., Göttingen.

Demonstrator: W. L. MILLER, B.A., Tor., Ph.D., Munich.

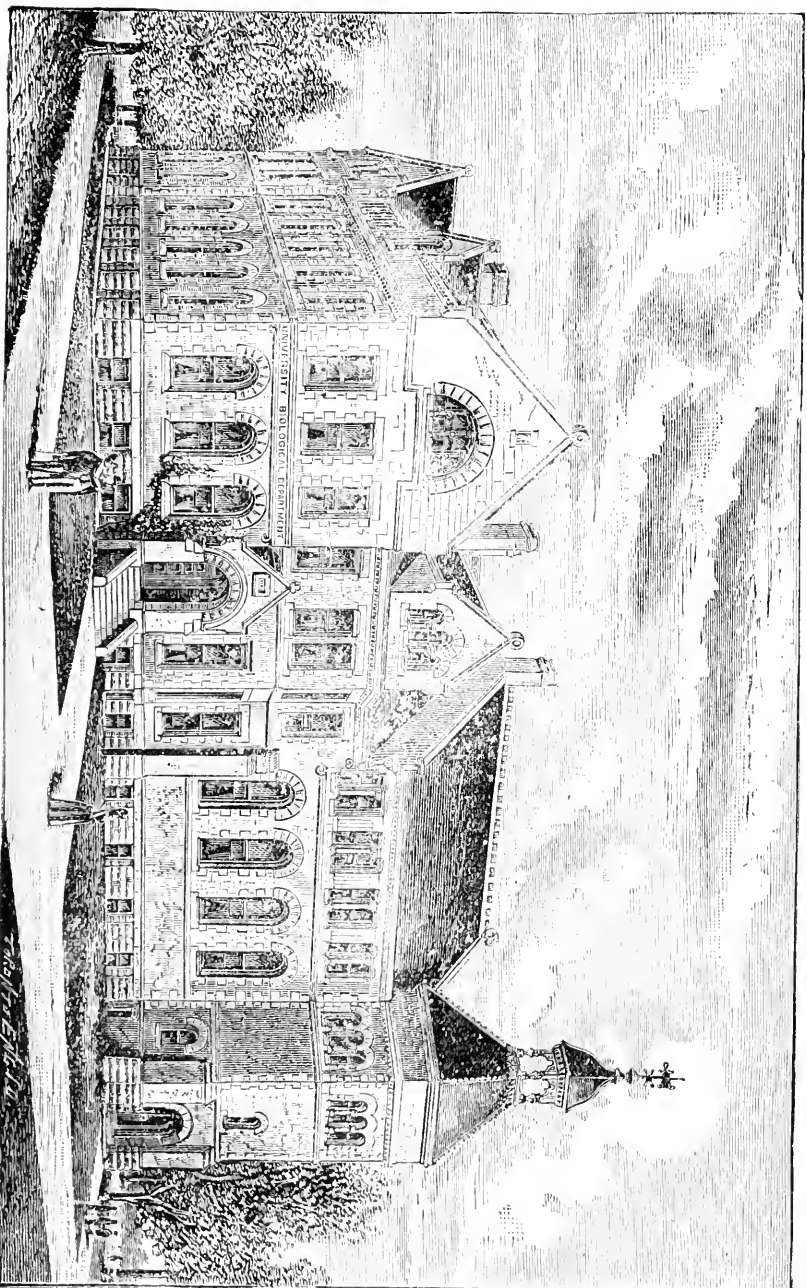
Lecturer: F. J. SMALE, B.A., Tor., Ph.D., Leipzig.

Lecture-Assistant: F. B. KENRICK, B.A., Tor., Ph.D., Leipzig.

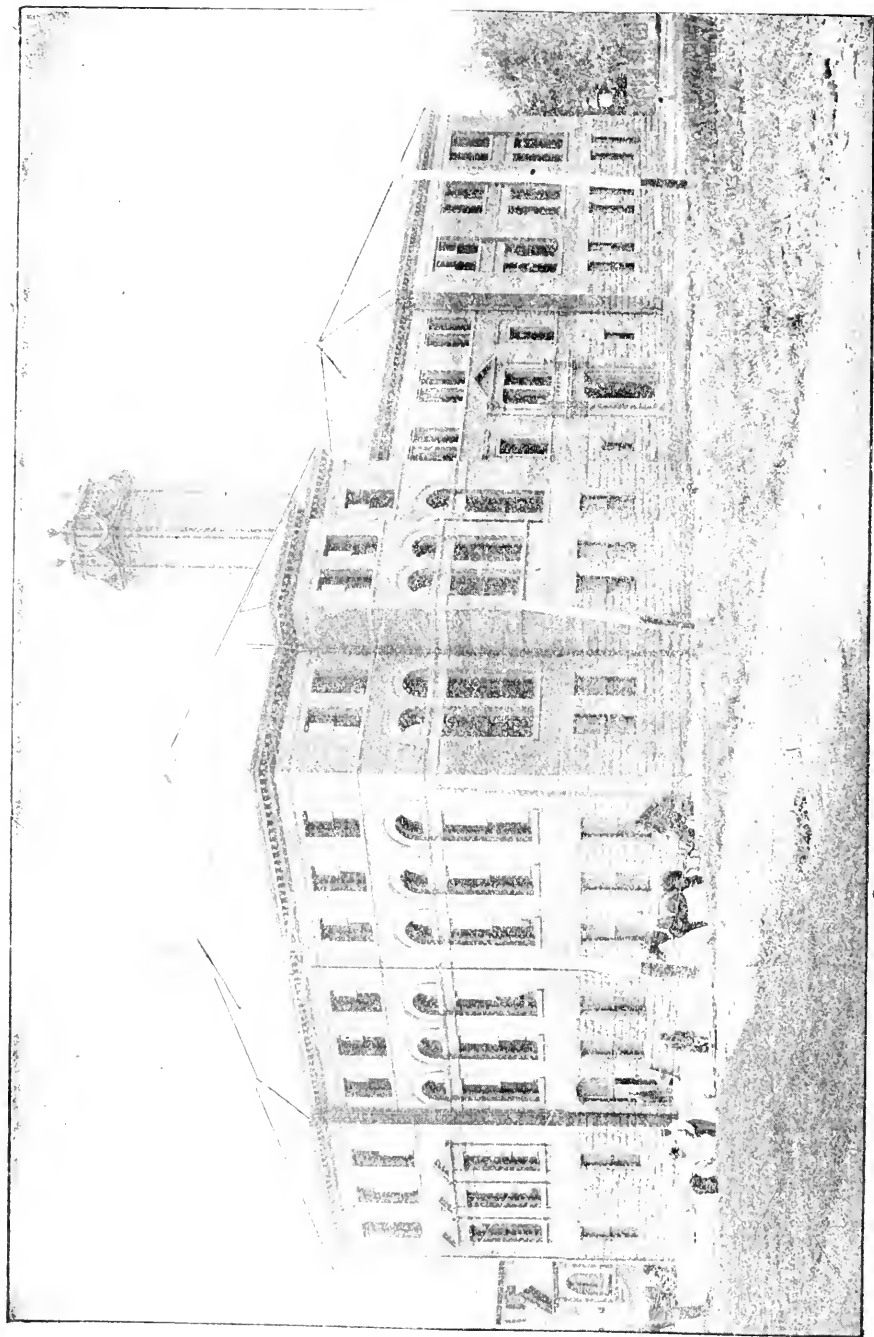
PHYSICS.

Professor: JAMES LOUDON, M.A., LL.D., Tor.

Lecturer: C. A. CHANT, B.A., Tor.



University Biological Department, East Wing.



The New Chemical Laboratory.

COURSES OF LECTURES

AND

METHODS OF INSTRUCTION.

WINTER SESSION, 1899—1900.

• **Chemistry.***Professor* : W. H. PIKE.*Demonstrator* : W. L. MILLER.*Lecturer* : F. J. SMALE.*Lecture-Assistant* : F. B. KENRICK.

All lectures and practical work will be given in the Chemical Laboratory. The students of the First year attend a course of lectures, delivered three times a week in the large lecture theatre, on inorganic chemistry. This course embraces an elementary study of the elements and their principal compounds, based on Mendelejeff's classification of the elements.

Book of Reference : V. v. Richter, Inorganic Chemistry.

The instruction given in practical chemistry includes a systematic course of laboratory work including qualitative analysis of inorganic salts, acids and bases.

The students of the Second year attend a course of lectures on elementary organic chemistry. The course, consisting of about fifty lectures in all, is based on a study of the constitutional formulæ of the various classes of organic compounds, as explaining, and deduced from, their chemical characters. It embraces the chemistry of the "fatty" compounds and an elementary study of the "aromatic" series.

The laboratory work of the Second year includes elementary volumetric analysis, with special application to clinical medicine and sanitary science, and the analysis of urine; and qualitative analysis as applied in toxicology and medicine.

Students working in the laboratory are provided with the necessary apparatus on making a deposit of three dollars* at the

*This is in addition to the fee of three dollars mentioned as "Chemical Laboratory Supply Fee," on page 36.

commencement of the session, which will be returned at the close of the session after the following charges have been deducted from it :—

- (1) The cost of all apparatus broken or destroyed.
- (2) Any fines for breach of laboratory rules.

No certificate will be given for the practical work unless the student has passed the practical examinations conducted during the session.

Physics.

Professor : J. LOUDON.

Lecturer : C. A. CHANT.

The course of lectures is intended to impart a clear and definite knowledge of the elements of physics, such as may form a satisfactory foundation for future scientific study.

It may be divided thus :

1. MECHANICS :

The principles will be outlined, the object being to give accurate notions of mass, momentum, force, energy and other common terms so often met with in discussing physical processes and laws.

2. HYDROSTATICS :

Pressures, specific gravity, and the general properties of liquids and gases will be taken up.

3. HEAT :

Effects of heat, thermometers, expansion, specific heat and latent heat, and other ordinary phenomena.

4. LIGHT :

The laws of optics will be discussed at some length. Mirrors, prisms, lenses and their combinations will be illustrated. A powerful electric lamp is used for class demonstration.

5. ELECTRICITY AND MAGNETISM :

The general laws of magnetism will be demonstrated. The voltaic cell, chemical, magnetic, heating and mechanical effects of the current, together with explanations of magneto-machines, induction coils, etc., will be dealt with.

The applications of acoustics to the measurement of short intervals of time will be explained. Throughout the course special attention will be given to those principles which find most frequent application in physiology and other branches of medical science. Every lecture will be fully illustrated by experiments, the entire apparatus of the Department of Physics being available for this purpose.

Biology and Physiology.

Professor of Biology: R. RAMSAY WRIGHT.

Professor of Physiology: A. B. MACALLUM.

Assistant-Demonstrator in Biology: R. R. BENSLEY.

1. Students of the First year will attend a course of lectures on general biology and elementary physiology, to be given three days a week throughout the session. This course of lectures is common to the Arts students of the First year, and is designed as an introduction to the whole range of biological studies. After a sketch of the scope and objects of these, the lectures will treat of the fundamental principles of biology, as observed in the simplest animals and plants, of the structure and functions of the human body, then, comparatively, of the vertebrates and of the rest of the animal kingdom, finally dealing with the vegetable kingdom in ascending order towards the more complex forms. Students are recommended to make use of the Biological Museum in connection with this course of lectures.

2. A practical course of fifty hours' duration, illustrating the above and serving as an introduction to the use of the microscope, will be conducted by the Assistant-Demonstrator under the supervision of the Professor of Biology.

During the Easter term there will be given a series of thirty lectures and demonstrations on special topics in physiology.

3. The students of the Second year will attend throughout the session a course of lectures and demonstrations in advanced physiology. The demonstrations, covering as wide a range of

the subject as the largely increased number and variety of the instruments at the command of the department will permit, will be specially illustrative of the points advanced in the lectures. Each student will be expected to repeat for himself, in the Laboratory, the more important demonstrations, and to facilitate this the class will be divided into groups, each of which will devote several hours a week to experimental physiology. Arrangements will also be made for holding, during the session, weekly class reviews on the subject matter of the lectures.

4. The instruction in embryology and histology will consist of twenty lectures during the Michaelmas term, and a practical course involving fifty hours' work in the laboratory. The lectures will be chiefly devoted to the development of the external form of the organs and of the tissues of the human body, but the necessary comparative data for the proper understanding of these will be supplied by reference to the embryology of the amphibia and the birds. The student may consult the large collection of models of embryology in the Museum, which are now furnished with explanatory labels designed to supplement the instruction given in the lectures. The practical course will be conducted by the Assistant-Demonstrator, and the student will have the opportunity of providing himself with a set of fifty typical specimens illustrative of embryology and histology, as well as of becoming acquainted with the methods employed in the preparation of these.

The Biological Museum.

The University Biological Museum forms the central portion of the Biological Buildings. The equipment of the Museum is now so far advanced as to permit of its being opened to the public. It is primarily intended as an educational Museum for the students taking biology as part of their University work, and is arranged in such a way as to facilitate the most elementary as well as the most advanced studies. Each specimen is furnished with a printed label indicating the most salient points which it is designed to illustrate, but it is antici-

pated that the Museum will also be of great interest to the general public, and will attract even greater numbers of visitors than the old Natural History Museum in the University Building.

The public entrance to the Museum is situated in the west façade of the Biological Buildings, while the students gain access to the rooms through the eastern wing, in which the laboratories are located. The interior of the Museum, which occupies two floors, is sub-divided into four rooms, seventy-five by twenty-five feet in size, amply lighted by handsome windows on the north and south sides. Three of these rooms are devoted to Animal Biology, while the fourth, which is to be arranged for the illustration of Vegetable Biology, is temporarily fitted up for the accommodation of the Ferrier collection of minerals.

The public entrance opens into the north ground floor room, the wall cases in which contain stuffed specimens of the various orders of Mammals, while the free-standing cases between the windows illustrate the comparative anatomy and development of that class. All the show cases are constructed of iron and plate glass, those destined for the exhibition of smaller specimens standing on wooden storage cases, built of cherry and cedar, and containing skins and other specimens for private study. The south ground floor room is devoted to the remaining vertebrate classes, the wall cases containing stuffed specimens of birds, reptiles, batrachians and fishes, and the smaller cases between the windows containing specimens illustrating the comparative anatomy and development of these classes.

A handsome staircase decorated with busts of distinguished biologists connects the ground floor and the first floor; a number of wall cases in ascending series contains a small collection of fossils from all parts of the world, as a graphic illustration of the relative position of the fossiliferous strata, and of their characteristic remains.

The south first floor room contains illustrative specimens of all the remaining branches of the animal kingdom, the arthro-

Pods and molluscs being exhibited in the wall cases and the table cases standing in the alcoves of these, while the protozoa, sponges, coelenterates, echinoderms and worms are accommodated in the cases between the windows.

Although the Natural History Museum suffered considerable losses on the occasion of the University fire, these fortunately did not involve the large collection of models and specimens most useful from the educational point of view, while the generosity of public bodies and private individuals has largely repaired the losses referred to, so that the Museum will be found to constitute a most important addition to the instruction furnished in the lecture rooms and laboratories.

Anatomy.

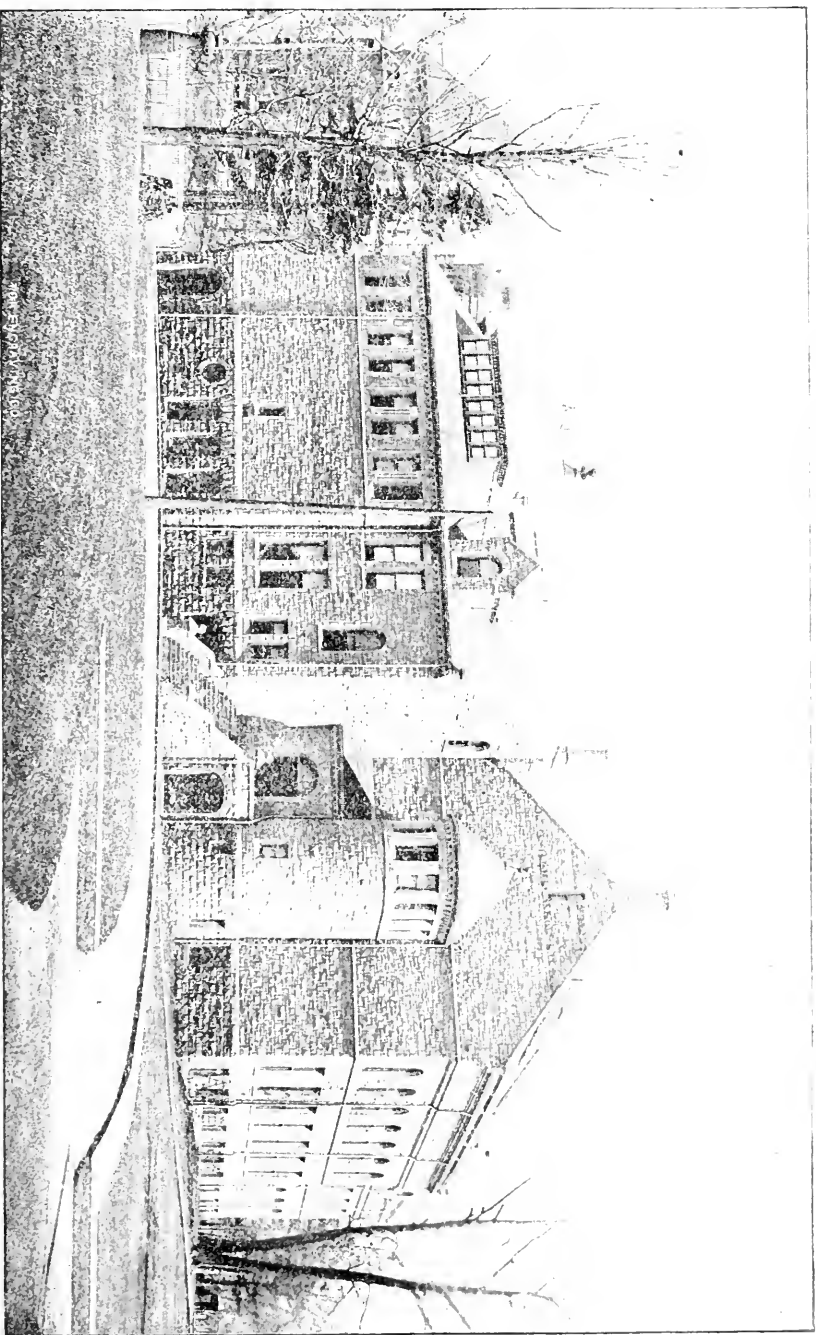
Professor, and Director of the Anatomical Department : A. PRIMROSE.

Associate-Professor : H. W. AIKINS.

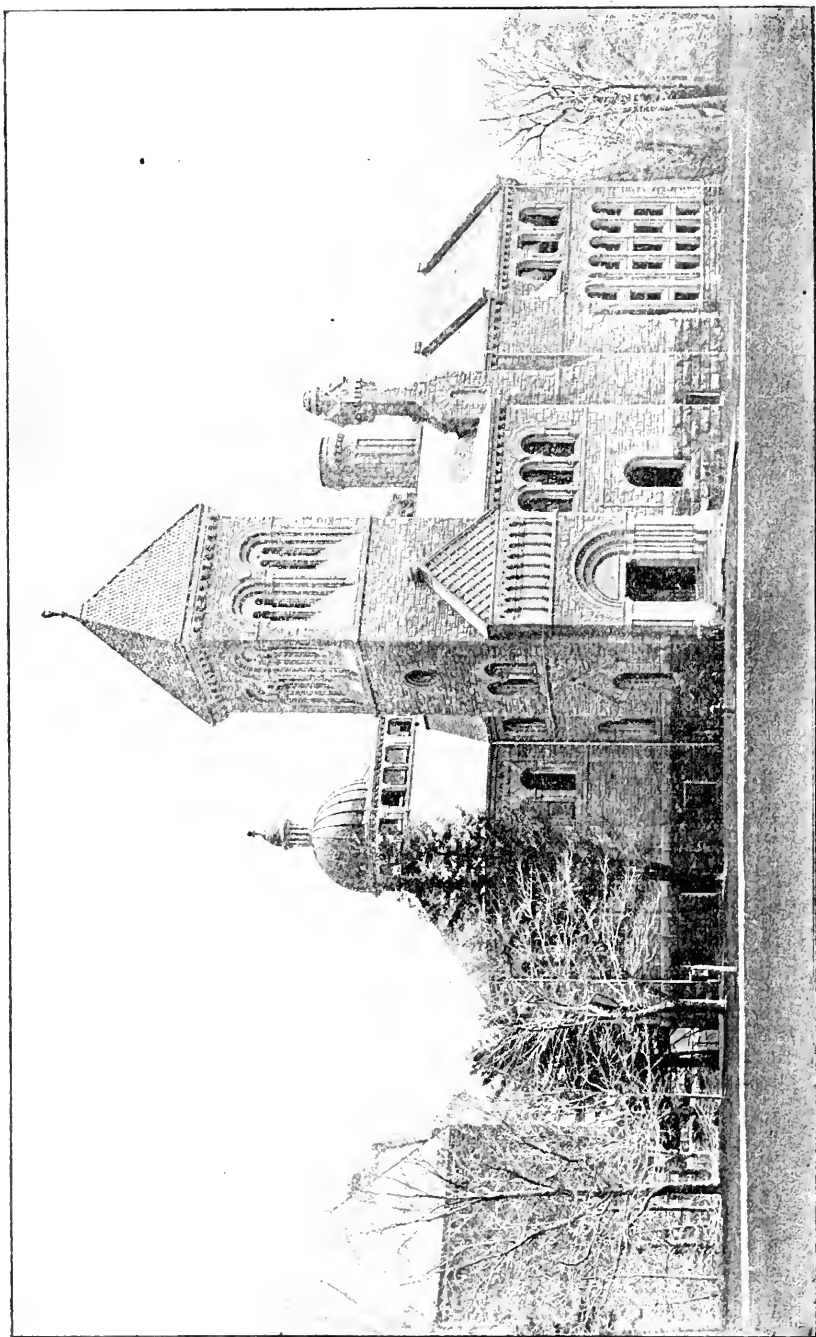
Lecturer and Demonstrator : F. N. G. STARR.

Assistant-Demonstrators : A. R. GORDON, R. D. RUDOLF, A. A. SMALL,
C. L. STARR, K. C. McILWRAITH, W. J. MCCOLLUM.

Lectures:—A course of lectures will be given in the Biological Department for students of the First and Second years; in this course the structure of the human body will be described in a systematic manner; the various organs of the body will be examined with their more important relations and connections. In order that the course may be more comprehensive certain principles in general morphology and development will be elucidated. The lectures will be illustrated by recent dissections, by wet and dry preparations and by drawings and diagrams. In the class-room a projection apparatus will be employed for the purpose of throwing upon a screen an enlarged view of photographs, taken from the valuable preparations which are displayed for study in the Museum. This greatly facilitates the demonstration of anatomical structure before a large class; plates of these preparations will be distributed among the students.



West Wing of Biological Buildings containing the Museum and Anatomical Department.



Library

Tutorial instruction will be given to limited classes for the purpose of studying osteology, and for the demonstration of the structure of the central nervous system and the special sense organs.

A course of lectures will be given at the University Medical Building, in Gerrard street, for students of the Third and Fourth years. This course will consist of a systematic study of the regional anatomy of the human body as applied in the practice of medicine and surgery. The lectures will be illustrated by suitable preparations, and a series of demonstrations of landmarks will be conducted on the living subject.

Demonstrations :—A series of demonstrations will be conducted daily for students of the Second year. In this class the main facts in gross human anatomy will be demonstrated from recent dissections.

Dissection :—The dissecting-room will be open daily from 9 a.m. until 6 p.m. on Monday, Tuesday, Wednesday, Thursday and Friday, and from 9 a.m. till 1 p.m. on Saturday. Students will be required to conduct their work in a systematic manner and to conform to the regulations in force in the dissecting-room. One or more of the Assistant-Demonstrators will be in attendance at all times for the purpose of superintending the work of the students, and of giving instruction. Examinations will be conducted from time to time on the parts dissected, and marks allotted for the work done. Certificates for work in practical anatomy are granted to such students only as have obtained the requisite number of marks in the examinations.

The dissecting-room is admirably adapted for the purposes of practical anatomy. It is large and well ventilated, and is equipped in such a manner as to afford every possible comfort and convenience to the student. Each student is provided with a locker for his private use. A notable feature of the dissecting-room is the excellent light, the room being lighted from the roof through extensive sky-lights, and when sunlight fails, electricity is employed with equally good effect.

Museum:—In connection with the dissecting-room a series of preparations have been mounted for the purpose of study. The disarticulated bones of the skeleton are included in this collection, together with frozen sections of the human body; wet preparations, illustrating regional anatomy, are also provided. A valuable and instructive series of Steger's models of frozen sections by His are exhibited in the Museum, together with a complete series of dissections of the brain and other preparations. Cunningham's series of models illustrating the topographical anatomy of the brain have recently been obtained.

Arrangements are such that a student may obtain bones from the osteological store-room, which he may take home for a limited period, if he so desire.

A pamphlet will be issued containing directions for the guidance of students of the class in anatomy, with the regulations for the dissecting-room. This should be procured by all students enrolled in the Anatomical Department.

Materia Medica and Therapeutics.

Professor of Therapeutics: J. M. MACCALLUM.

Associate-Professor of Pharmacology and Therapeutics: C. F. HEEBNER.

The course in therapeutics includes: 1. General Therapeutics or the nature and actions of remedies generally. 2. The various forms in which medicines are administered, and the channels through which they are introduced into the system. 3. Special therapeutics, of the more important medicines of the British Pharmacopœia, and of recent important but non-official medicinal substances.

There will also be dealt with such subjects as electricity in its application to disease, heat, cold, climate, massage, hydrotherapy.

Clinical Therapeutics:—Cases in the wards of the General Hospital and of the Hospital for Sick Children will be used to illustrate important points in special and general therapeutics.

The following subjects will be considered in the course on materia medica and elementary therapeutics:—

1. The exhibition of drugs. This subject will be discussed as to forms of drugs, and as to mode of administration.

2. Therapeutic terms and definitions, with such explanations as may be necessary to make their use in the subsequent lectures understood.

3. General pharmaceutical operations, as solution, maceration, digestion, percolation, etc., the preparation of ointments, extracts, infusions, etc., the comparative values of the various solving menstrua and bases, and the effect upon drugs of the different pharmaceutical methods used.

4. The general principles of posology, and modifying influences.

5. The art of prescribing. Instruction in this subject will be with a view to indicate the means of ensuring that mixtures may be therapeutically effective, free from incompatibility and pleasing to the eye and taste.

6. Crude drugs. Their nomenclature, source, physical and chemical characters, active principles, medicinal properties, dose, impurities and adulterations, toxicological action, if any.

(a) Inorganic drugs.

(b) The carbon compounds.

(c) Plant drugs.

(d) Animal drugs.

7. Prepared Drugs. The official and important officinal preparations will be considered individually as to their strength, method of preparation, dose, etc.

The collection of specimens of crude and prepared drugs is complete in every respect. These specimens will be handed to the students for inspection, at each lecture, and then returned to the glass cases in the Reading Room, where they may be further inspected. Provision will be made whereby all students of the class may secure a complete set of specimens, at a moderate cost, for home study.

Medicine.

Professor of Medicine and Clinical Medicine: J. E. GRAHAM.

Associate-Professor of Medicine and Clinical Medicine: A. MCPHEDRAN.

Lecturers on Disease in Children and Clinical Medicine: H. T. MACHELL,

W. B. THISTLE.

Lecturers in Clinical Medicine: R. J. DWYER, G. BOYD.

The aim of the course will be the discussion of Internal Medicine in its more general aspects so as to lay a broad basis for giving an insight into general medical science. The general principles of the various subjects treated of will be considered, tracing the relationship existing between etiology, morbid changes and symptomatology, and deducing therefrom the course of treatment that should be pursued; and the more important diseases will be exhaustively dealt with. As far as possible, the course will be made to conform to that of the Clinical Department so that students may be able to apply the general principles discussed to the particular cases under observation.

The lectures will be illustrated by diagrams, hand-coloured drawings, photographs, etc., and by preparations of morbid anatomy.

Clinical Medicine.

As it is only by being brought into direct contact with patients that the student can gain a thorough knowledge of disease in its varying aspects, it is to the Clinical Department that he must devote the greater part of his time and energy in order to become proficient in the subject. Ample opportunities will be afforded him in the large out-patient and in-door services of the Toronto General and St. Michael's Hospitals for the study of disease in the adult. The Hospital for Sick Children affords a varied field in children's diseases.

While as great a variety of cases as possible will be presented for examination, more importance will be attached to thoroughness in the study of cases than to the number observed.

In addition to the out-patient clinics and regular weekly lectures, students of the Third and Fourth years will be

taken in classes into the wards daily for instruction at the bedside, and each student required, in presence of the class, to take part in the examination of patients, to interpret the significance of the symptoms presented, and detail the treatment indicated. They will be instructed in the use of instruments of precision, such as the thermometer, sphygmograph, ophthalmoscope, hæmometer, hæmocytometer, etc.

Students will act as clinical clerks, and will be required to take accurate and complete histories of the cases assigned to them; these histories will be criticised from time to time before the class and value assigned for the work done. By a recent enactment of the Senate of the University of Toronto, a record is made of this and other clinical work done by the student during the session and reported to the Senate at the end of the session; this report is accepted in lieu of a clinical examination, as it is considered a much more accurate gauge of the student's attainments than can be obtained by any examination however thorough.

Small classes will be formed of the students of the Third year for the study of the methods of examination and the significance of symptoms, the utmost care being taken to develop accuracy of observation and of interpretation.

Disease in Children.

A special course of instruction in Disease in Children, will be conducted by the lecturers appointed to that special department. These lecturers will be assisted in the clinical work by other members of the Faculty, who are on the staff of the Hospital for Sick Children.

Clinical Laboratory Instruction.

The Assistant in Pathology will give daily demonstrations in the Hospital Clinical Laboratory in the microscopical, chemical and bacteriological examination of blood, urine, sputum, stomach contents, etc.

Each clinical clerk will be required to make all such examinations in connection with the cases under his charge, and

enter the result in his clinical records. The value of this work will be taken into account in estimating his standing in clinical medicine at the end of the session.

Text Books recommended : Osler, Strümpell, Musser, Gibson and Russell.

For reference : Fagge's Principles and Practice of Medicine (latest edition), and Hirt on Diseases of the Nervous System.

Surgery.

Professor of Surgery and Clinical Surgery : I. H. CAMERON.

Associate-Professor of Surgery and Clinical Surgery : G. A. PETERS.

Associate-Professors of Clinical Surgery : A. PRIMROSE, B. SPENCER

L. M. SWEETNAM, H. A. BRUCE, W. OLDRIGHT.

This course of lectures comprehends :—

1. The general principles of surgery, as based upon what is known of: (a) The natural history of diseases of a surgical character as they affect the human frame, as, for example, abscess, ulceration, mortification, tumours, etc.; (b) The processes of repair and regeneration taking place in tissues, which have been diseased, such as the healing of wounds, the expulsion of foreign bodies, as bullets, dead bone, etc.; and (c) The part played in these processes by minute vegetable organisms, involving a consideration of the germ theory of disease.

2. Surgical Injuries.

(a) Of tissues, as fractures, dislocations, and injuries to nerves, blood vessels, etc.

(b) Of organs contained in the so-called cavities of the body, the brain, lungs and abdominal viscera.¹³

3. Surgical diseases, as aneurism, varicose veins, calculus in the kidney or bladder, hernia, tuberculous diseases of joints, bones, testicles, etc., pyæmia, erysipelas, etc.

4. The correction of malformations, deformities and defects, as club-foot, spinal curvatures, hare-lip, cleft-palate and other conditions usually classified under the headings of orthopædic and plastic surgery.

This course will be illustrated by plates and drawings, by specimens from the Museum and fresh specimens from the operating and post-mortem rooms, and by especial reference to clinical cases falling under the immediate observation of the students in the wards of the Hospitals.

Clinical Surgery.

In teaching clinical surgery, an effort is made to give as much personal instruction to each student as possible, and whenever it is practicable he is permitted to make a careful examination of the patients brought before the class. In order to facilitate this the classes are made small, and are graded to some extent according to the degree of advancement of the students in their studies, for the purpose of confining the studies of the senior students to subjects of a more advanced character than those treated of in lectures for the junior students. Whenever it is practicable, dressings are done and apparatus applied in the presence of the classes. Each step of the proceeding is explained by the surgeon in charge, and the clinical clerks and dressers participate in the actual work in connection with the case.

During his course, each student has an opportunity of acting as clinical clerk and dresser, thus being afforded facilities for coming into that immediate contact with the patient which is so important from the point of view of practice, and which lends such an amount of additional interest to the cases in his charge.

The material available for the instruction of students is very abundant, consisting of out-door and in-door patients in the Toronto General Hospital, St. Michael's Hospital, and also of out-door and in-door patients in the Hospital for Sick Children. In the last named institution may be found cases, in great numbers and varieties, illustrating all the diseases, deformities and defects, such as club-foot, hare-lip, hip-joint disease, Pott's disease, and other conditions met with most frequently in young children.

Pathology.

Professor of Pathology and Bacteriology : J. CAVEN.

Lecturer on Bacteriology : J. J. MACKENZIE.

Demonstrator : J. AMYOT.

Assistant-Demonstrator : J. STENHOUSE.

Laboratory Assistant in Bacteriology : W. GOLDIE.

The course will embrace lectures on general and special pathology, together with demonstrations in both gross morbid anatomy and pathological histology. The lectures to the Third year will be mainly upon general pathology, and those to the Fourth year upon special pathology. Post-mortem examinations are performed by the Professor of Pathology or the Demonstrator at the General Hospital, and the students of the Fourth year will be expected to take part in these. Gross demonstrations in addition to those in the Hospital Mortuary are given in the College class-rooms every week, and will be so arranged that Students of both Third and Fourth years may take advantage of them. The University having equipped a pathological laboratory in the school building, and a clinical laboratory in the General Hospital, every facility for microscopical work in tissues and fluids is afforded. At least seventy-five slides of morbid tissues are mounted by each senior student, and four hours of demonstration in microscopical work per week given in each year. Clinical clerks receive regular instruction in the analysis of urine, examination of blood, sputum, etc., in the Hospital Clinical Laboratory.

In Bacteriology, a course of lectures will be given, and every student will be required to work in the Bacteriological Laboratory for one month. The Assistant in Bacteriology will give all needed assistance to clinical clerks who may have to undertake bacteriological work in connection with cases under their charge in the Hospital.

Hygiene.

Professor: W. OLDRIGHT.

The student is recommended to obtain from one of the works mentioned in the list of text books an elementary knowledge of the subject of each next succeeding lecture. The information thus obtained will be supplemented in the lectures, and fuller consideration will be given to those points which require special attention on account of differences of climate, population, occupations, social and political organization, and other circumstances in Canada. Students will also be guided in regard to sources of information and current literature relating to health work in this country.

In addition to the theoretical teaching, practical demonstrations will be given by means of various instruments. The following subjects will be embraced in the course: air, impurities and their effects, ventilation and heating; hygienic architecture; climatology; sewerage and disposal of refuse; water supplies; foods, dietaries, adulterations; occupations; exercise and overwork; clothing; baths; contagion and infection; management of epidemics, quarantine; duties and functions of medical health officers and boards of health; vital statistics; sanitary legislation—federal, provincial and municipal.

Museum of Hygiene.

In the Museum of Hygiene will be found apparatus and samples for teaching and illustrating the various branches of Hygiene, and exhibits contributed by manufacturers and other persons interested in the subject.

Toxicology.

Associate-Professor: W. H. ELLIS.

A series of lectures and demonstrations on toxicology is given under the following heads:—

THE NATURE OF POISONS.

Their properties, physical, chemical and physiological.

THE OCCURRENCE OF POISONS.

In nature, in the arts, and in common life. Danger from poisoning incidental to particular callings. Genesis of poisons in the dead and in the living body.

ANTIDOTES TO POISONS.

THE DETECTION OF POISONS.

Identification of poisons in the pure state. Separation from organic matter.

Post-mortem examinations for poisons.

Medical Jurisprudence.

Associate-Professor : B. SPENCER.

Legal Lecturer : HON. DAVID MILLS.

The course will embrace the discussion of the following subjects in their medico-legal aspects:—

Reports and written opinions; expert evidence; Coroner's Law.

The identity of the person—living and dead.

Death; its causes, signs, and period of occurrence. Apparent death; autopsy; exhumation.

Injuries to the person,—in connection with which will be considered wounds and other external injuries; blood-stains; suffocation, hanging and strangling; drowning and starvation.

Poisoning: its clinical symptoms and pathological appearances.

Offences against chastity, including rape, criminal abortion and infanticide.

Live birth, legitimacy, congenital defects and feigned diseases.

Suicide.

Medical ethics.

Mental Diseases.

Extra-Mural Professor : D. CLARK.

The course of lectures will be chiefly clinical, and given at the Asylum. The subjects discussed will be of a practical nature as far as possible, and may be classified as follows:—

1st. Definitions and errors arising therefrom in the study of insanity.

2nd. The brain and its exceptional construction and functions.

3rd. The brain as an organ of the mind.

4th. Sanity and insanity in their relation to one another.

5th. Different forms of insanity, illustrated by patients.

6th. The moral treatment of the insane.

7th. The medical treatment of the insane in the various forms of their diseases.

Gynæcology and Obstetrics.

Professor of Gynæcology : U. OGDEN.

Professor of Obstetrics : A. H. WRIGHT.

Associate-Professor of Gynæcology : J. F. W. ROSS.

As such very ample means are now furnished in other departments for the study of the anatomy, physiology and pathology of the parts concerned, the Professor of Gynæcology will devote his time altogether to the various methods of examination and diagnosis; the use and application of instruments; and the symptoms, diagnosis and treatment of diseases peculiar to women.

The disorders of menstruation, leucorrhœa, chlorosis, metritis in its various forms, tumors, displacements and diseases of the uterus and ovaries, lacerations of the cervix uteri and perineum, and abdominal surgery will be treated of and illustrated by large plates, casts and morbid specimens in the didactic course, while operative gynæcology will be fully demonstrated by the Professors in their clinics in the Toronto General Hospital.

There will be two separate courses in obstetrics: one for the students of the Third year in physiological obstetrics, and the other for students of the Fourth year in pathological obstetrics.

The Third year course in physiological obstetrics will include the following: anatomy and physiology of the female organs of reproduction; physiology and pregnancy; physiology, mechanism, and management of labor; management of the puerperal state; management of the infant.

The Fourth year course on pathological obstetrics will include: diseases of pregnancy, abortion and premature labor, dystocia, accidents before and after delivery, obstetrical operations, puerperal diseases, including septicæmia.

Practical demonstrations will be given on the phantom or cadaver, and diagrams, specimens, models, etc., will be used in illustrating the various subjects treated of in the two courses.

Ophthalmology, Otology, Laryngology and Rhinology.

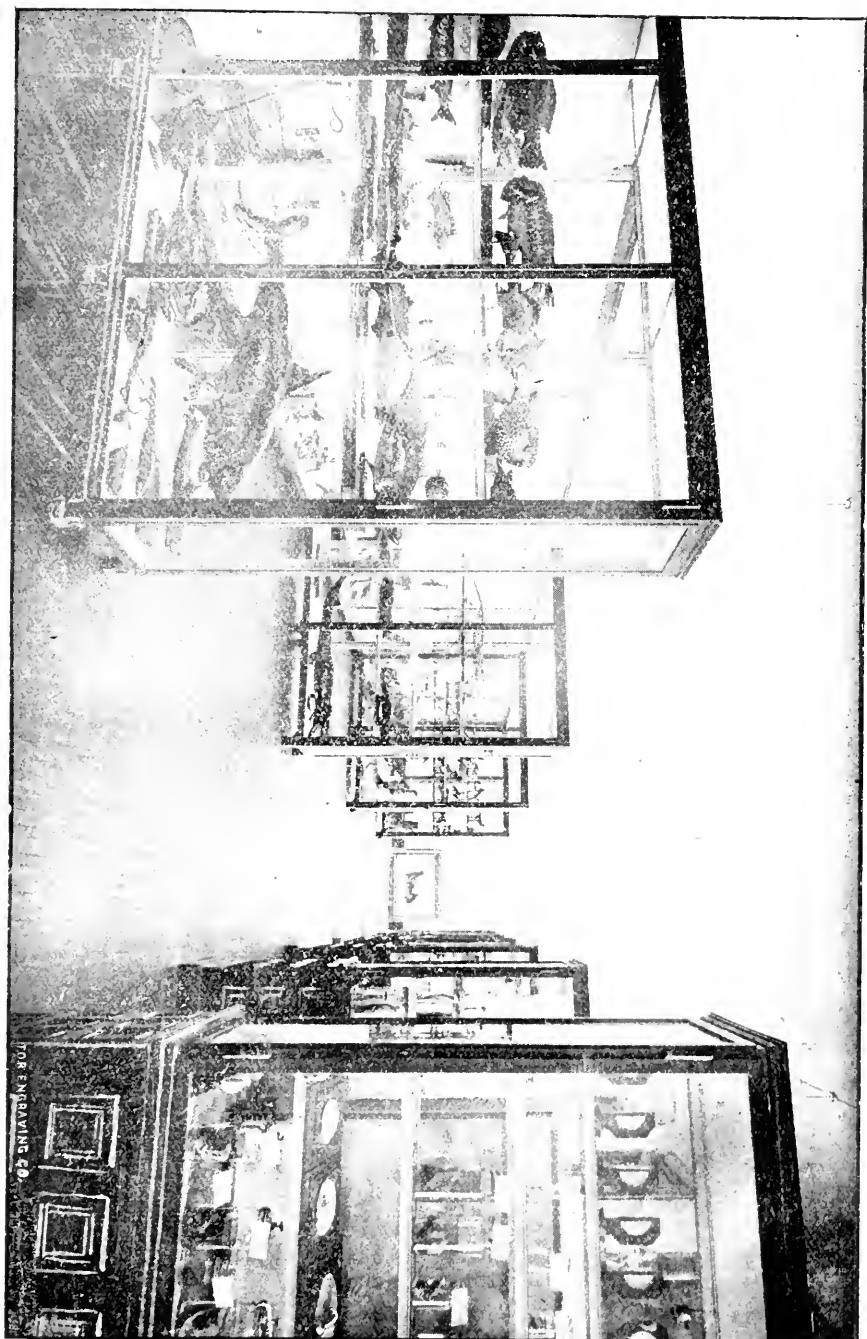
Professor of Ophthalmology and Otology: R. A. REEVE.

Associate-Professor of Ophthalmology and Otology: G. H. BURNHAM.

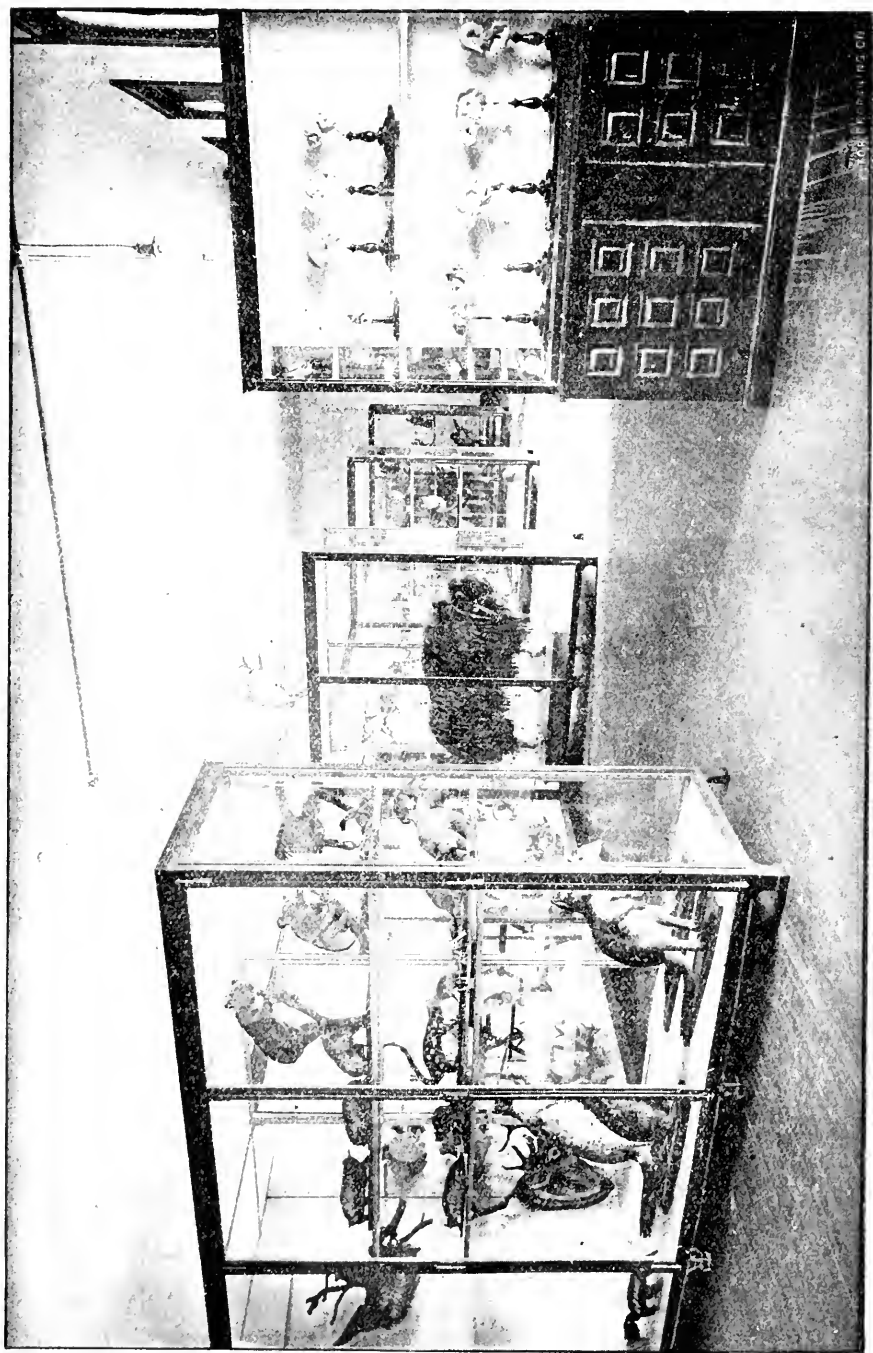
Associate-Professor of Laryngology and Rhinology: G. R. McDONAGH.

In addition to a short course of didactic lectures on Diseases of the Eye and Ear at the College, practical instruction will be given four times in the week at the clinics in the Provincial (Mercer) Eye and Ear Infirmary, Toronto General Hospital.

In the department of Laryngology and Rhinology, a course of practical lectures on the commoner forms of disease of the Throat and Nose will be given, and in the General Hospital opportunities for examining patients will be presented twice a week.



The University Biological Museum, View of South Portion of Ground Floor.



The University Biological Museum, View of North Portion of Ground Floor.

The Toronto General Hospital.

The following members of the Faculty are members of the staff of the General Hospital :—

Consulting.

PROF. J. H. RICHARDSON, M.D.

PROF. J. THORBURN, M.D.

•

Physicians.

PROF. J. E. GRAHAM, M.D.

PROF. A. MCPHEDRAN, M.B.

Surgeons.

PROF. I. H. CAMERON, M.B.

PROF. G. A. PETERS, M.B.

Emergency Branch.

Surgeons.

PROF. A. PRIMROSE, M.B.

“ BERTRAM SPENCER, M.D.

Physicians.

PROF. J. M. MACCALLUM, M.D.

W. B. THISTLE, M.B.

Out-door.

Surgeons.

F. N. G. STARR, M.B.

PROF. H. A. BRUCE, M.B.

Physicians.

A. R. GORDON, M.B.

R. D. RUDOLF, M.D.

Gynaecology and Obstetrics.

PROF. U. OGDEN, M.D.

PROF. A. H. WRIGHT, M.D.

PROF. J. F. W. ROSS, M.B.

Assistant in Gynaecology.

PROF. L. M. SWEETNAM, M.B.

Pathology.

PROF. JOHN CAVEN, M.D.

J. AMYOT, M.B.

Ophthalmology and Otology.

PROF. R. A. REEVE, M.D.

PROF. G. H. BURNHAM, M.D.

Rhinology and Laryngology.

PROF. G. R. McDONAGH, M.D.

Assistant in Rhinology and Laryngology.

G. BOYD, M.B.

Registrars.

K. C. McILWRAITH, M.B.

CLARENCE L. STARR, M.B.

A. A. SMALL, M.B.

R. J. DWYER, M.B.

The Hospital has now over 400 beds, and during the year the number of in-patients under treatment has varied from 250 to 300. During last year about 3,300 patients were admitted, and 16,000 patients received treatment in the out-door department.

All the patients in the Hospital are, as a rule, suffering from acute medical or surgical disease; the chronic cases are generally sent to the Home for Incurables or House of Providence, and the convalescent patients are sent to the new Convalescent Home, recently erected on Wells's Hill.

Clinical Teaching.

Clinical instruction is given in the various departments of the Hospital on all classes of patients.

I. *Theatre Lectures* :—Clinical Lectures are given daily, on patients brought from the wards to the large theatre, by the professors of clinical medicine and of clinical surgery to the students of the Third and Fourth years.

II. *Instruction in the Wards* :

(a) *Medicine and Surgery* :—A systematic course of bedside instruction is given to limited classes of students. Arrangements are such that each physician and surgeon or his assistant is in daily attendance for the purpose of imparting instruction at the bedside. By this means provision is made for continuous daily work in the ward, and students of both Third and Fourth years are required to avail themselves of it.

(b) *Gynaecology* :—Small classes of students receive instruction in diseases peculiar to women in the pavilion specially devoted to the treatment of such patients. These classes meet twice a week. Increased facilities have recently been provided for an out-door gynaecological clinic.

(c) *Obstetrics* :—In the Burnside Lying-in-Hospital, in which there are over 200 births a year, final students are permitted to witness and assist in the conduct of *labours*. Students are also allowed to make engagements with out-patients and to attend them in confinements at their own homes.

(d) Ophthalmology, Otology, Laryngology and Rhinology :—Diseases of the eye, ear, throat, and nose are studied in the wards of the Andrew Mercer Infirmary.

III. *Surgical Operations* :—Surgical operations are performed in the large theatre on Tuesday and Friday afternoons, or in cases of emergency at any time during the day or night when required. The theatre, which has recently been altered and enlarged, is capable of seating 600 students, and in the completeness of its arrangements is not excelled. The facilities afforded the students situated in all parts of the room for witnessing operations in all their details are unusually good.

IV. *Out-patient Clinics* :—The new addition to the Hospital for the accommodation of out-patients affords ample facilities for instruction in the important class of diseases which here pass under observation. A physician and a surgeon are in attendance daily, and instruction is given on the patients. The cases presenting themselves in the special departments of the Hospital devoted to diseases of the eye, ear, etc., are available in the same manner. There will also be an out-door clinic in gynæcology.

V. *Pathology* :

(a) *Autopsies* :—These are performed at stated hours by the Professor, or the Demonstrator of Pathology. The examinations are conducted in a systematic way, and instruction on the morbid conditions found is imparted to the students. The bearings of the gross post-mortem appearances on the conditions previously found at the bedside are carefully investigated, and, when necessary, arrangements are made for further examination, microscopical and chemical. There are about 200 autopsies during the year. Recently the theatre in which autopsies are made has been completely remodelled and every facility is provided for conducting the examinations. The light is excellent and the room is capable of accommodating 150 students.

(b) The examination and analysis of the various fluids, excreta and pathological products of patients in the wards, are

conducted in the University Hospital laboratory. Students are required to keep systematic records of the results obtained by these examinations.

Clinical Clerks and Surgical Dressers.

Clinical clerks and surgical dressers are appointed to act for limited periods. They are required to take complete histories of cases allotted to them, and to receive certificates for the same, as required by the Ontario Medical Council. Post-mortem clerks are appointed, and are required to make complete reports of all autopsies made in the post-mortem room, which is situated in the Hospital grounds. Clinical clerks and surgical dressers are also appointed in the departments of gynæcology, ophthalmology, and otology.

Resident Assistants in the Hospital.

Five resident assistants are appointed annually from the graduates in medicine of the University, and hold their positions for one year. They will have full opportunities for acquiring experience in the general and special wards of the Hospital, and during the session they will have charge under the physicians and surgeons in the general wards.

For the current year they are:—Meesrs. H. W. Spence, M.B.; A. D. Stewart, M.B.; A. A. Shepard, M.B.; F. Turnbull, M.B., and M. B. Dean, M.B.

Hospital for Sick Children.

The following members of the Faculty are members of the Hospital staff:—

Consulting.

PROF. U. OGDEN, M.D.

PROF. J. THORBURN, M.D.

PROF. J. E. GRAHAM, M.D.

PROF. J. F. W. ROSS.

Physicians.

PROF. A. MCPHEDRAN, M.B.

W. B. THISTLE, M.D.

H. T. MACHELL, M.B.

Surgeons.

PROF. I. H. CAMERON, M.B.

PROF. G. A. PETERS, M.B.

PROF. A. PRIMROSE, M.B.

CLARENCE L. STARR, M.B.

Ophthalmology and Otology.

PROF. R. A. REEVE, M.D.

PROF. J. M. MACCALLUM, M.D.

Rhinology and Laryngology.

PROF. G. R. McDONAGH, M.D.

Pathology.

PROF. J. CAVEN, M.D.

Bacteriologist.

J. J. MACKENZIE, B.A., M.B.

Out-door and Assistant.

F. N. G. STARR, M.B.

B. SPENCER, M.D.

G. BOYD, M.B.

Registrar.

This large Hospital, with 160 beds, is entirely devoted to disease in children. In the clinics, cases exemplifying the various diseases in infancy and childhood will be exhibited. Abundant opportunities for a personal examination of all cases will be afforded.

A resident assistant is appointed annually from the graduates in medicine of the University, and holds his position for the year. The opportunity thus offered for obtaining a practical knowledge of this very important department of medical practice is unsurpassed.



St. Michael's Hospital.

This institution is conducted as a General Hospital; where medical, surgical and obstetrical cases are admitted. The number of patients admitted last year was about 1,500. The accommodation has recently been enlarged by the addition of a new wing, so that there are now 160 beds. An operating

theatre has been provided, constructed with all the necessary modern equipment for the practice of antiseptic surgery.

Clinical instruction is given in this Hospital by those members of the staff who are also on the teaching staff of the University of Toronto. Opportunity is also provided for the study of Pathology. Post mortem examinations are conducted systematically, so that students may avail themselves of the material in this department. Clinical clerks and surgical dressers are appointed from the students in attendance at the Hospital.

A resident assistant is appointed annually from the graduates in medicine of the University of Toronto.

The following members of the Faculty are members of the staff of St. Michael's Hospital :—

Physicians :

PROF. J. E. GRAHAM, M.D.

PROF. A. MCPHEDRAN, M.D.

R. J. DWYER, M.B.

Surgeons :

PROF. I. H. CAMERON, M.B.

PROF. W. OLDRIGHT, M.D.

PROF. A. PRIMROSE, M.B.

PROF. L. M. SWEETNAM, M.B.

J. AMOYT, M.B.

Gynaecologist :

PROF. J. F. W. ROSS, M.B.

Assistant Surgeon :

PROF. H. A. BRUCE, M.B.

Text Books.

Anatomy—Gray, \$6 ; Quain ; Morris, \$6 ; Cunningham's Practical Anatomy, 2 vols., \$7 ; Ellis's Demonstrations of Anatomy, edited by Thane, \$3.75 ; Brodie's Atlas of Dissections, Illustrated, 4 vols., \$9.50 ; Anatomy and Physiology of the Nervous System, L. F. Barker, \$5.

Physiology—Foster, 4 vols., \$9, New American edition, 1 vol., \$5 ; McKendrick, 2 vols., \$10 ; Howell, American Text Book of Physiology, \$7 ; Landois & Stirling, \$7 ; Waller, \$4 ; Stewart, \$3.50 ; Brodie, Essentials of Experimental Physiology, \$; Text Book of Physiology, edited by E. A. Schafer.

Histology—Schafer Practical Histology, \$2; Stohr's Text Book, translated and edited by Schaper, \$3; Piersol, \$3.50.

Chemistry—Remsen (inorganic), \$1.35; (organic), \$1.50. *Book of Reference*—Richter, Inorganic Chemistry, \$1.75.

Pharmacology and Therapeutics—Hare's Practical Therapeutics, \$3.75; Yeo's Clinical Therapeutics, 2 vols., \$5.50; Bruce, \$1.50; Hale White, \$2.50; Farquharson, \$2.50; Brunton, \$5.50; Peebner's Synopsis of B. P. Preparations, \$1.

Surgery—Erichsen, 2 vols., \$12; Moullin, \$6; Walsham, \$3.35; Treves' System, 2 vols., \$12; Treves' Surgical Operations, \$2; American Text Book of Surgery, \$8; Jacobson, the Operations of Surgery, \$9; Zackerkandl's Atlas of Operative Surgery, \$; Wharton's Bandaging and Minor Surgery, \$3; Kocher's Operative Surgery, translated by Stiles, \$3.50; Surgery, by American Authors, Roswell Park, \$9; White & Martin, on Genito-Urinary Diseases, \$6.50; Surgical Diagnosis and Treatment, Macdonald; Traumatic Injuries of the Brain, Phelps, \$5; Fractures and Dislocations, Stimson, \$.

Medicine—Osler, \$5.50; Wood and Fitz, \$6; Fagge, 2 vols., \$12; Strümpell, \$6; Hirt, on the Nervous System, \$5; Allbutt's System, 6 vols., \$33; Loomis' System, 4 vols., \$20; Tyson, \$5.50; Gowers, on Nervous System, \$7; Mills, on Nervous System, \$6; Fowler & Godlee, Diseases of the Lungs, \$6; Dictionary of Treatment, Whithall, \$.

Clinical Medicine—Gibson & Russell, \$2.50; Finlayson, \$2.50; Vierordt, \$4; Musser, \$5; Da Costa, \$6; Clinical Diagnosis, Simon, \$; Diagnosis, H. A. Hare, \$.

Midwifery—Playfair, \$4; Galabin, \$4; Lusk, \$5; An American Text Book, edited by Norris, \$8.

Gynecology—Thomas & Mundé, \$5; Galabin, \$2.50; Garrigues, \$4; Hart & Barbour, \$5; Pozzi, 2 vols., \$12; Allbutt & Playfair, a System of Gynecology, \$6; Hermann, \$6; Kelly, Oper. Gynecol., 2 vols., \$15; Cancer of the Uterus, Cullen.

Disease in Children—Ashby & Wright, \$5; Goodhart, \$3; Eustace Smith, \$5; Holt, \$7; Jacobi, \$3; Rotch, \$6.50.

Pathology—Ziegler, \$4; Payne, \$3.50; Green, \$2.75; Coates, \$9; Hamilton, 2 vols., \$10; Thoma. Surgical Pathology, J. Jackson Clarke; Bacteriology, Abbott; Stengel, \$4.

Medical Jurisprudence—Taylor, \$4.50; Reese, \$3; McLane Hamilton, \$13; Witthaus & Becker, \$20.

Hygiene—Louis C. Parkes, \$2.50; DeChaumont's Parkes, \$5; Normal School Manual, 50 cents; Stevenson & Murphy, \$17; Wilson, \$3; Richardson's "Field of Disease," \$4.

Dermatology—Jackson, \$2.75 ; Crocker, \$4.50 ; Robinson, \$5 ; American Text Book of Dermatology, \$8 ; Jamieson, \$6.

Biology—Parker, \$2.60 ; Huxley, \$2.60.

Physics—Gage's Principles of Physics, \$1.25 ; Daniell's Physics for Medical Students, \$1.25.

Ophthalmology—Nettleship, \$2 ; Swanzy, \$3 ; Juler, \$5.50 ; de Schweinitz, \$4 ; Carter & Frost, \$2.25.

Otology—Pritchard's, \$1.50 ; Field, \$3.75 ; Buck, \$2.50 ; Roosa, \$5.50 ; Bacon's Manual of Otology, \$.

Mental Diseases—Clarke, \$1.25 ; Savage, \$2 ; Accident and Injury, Bailey, \$5.

Laryngology—Seiler, \$2 ; Williams, \$2.50 ; Lennox Brown, \$6.50 ; Bosworth, 2 vols., \$5.50.

Fees.

Registration (payable once only)	\$ 5 00
The tuition fees for the first year amount to	100 00
The tuition fees for the second year amount to	100 00
The tuition fees for the third year amount to	100 00
The tuition fees for the fourth year amount to	100 00
Biological laboratory supply fee in first year	1 50
Biological laboratory supply fee in second year	2 75
Chemical laboratory supply fee in first and second years	3 00

The annual fee for instruction in medicine in each of the four years is \$100 if paid on or before November 1st of the session, or \$105 if paid in instalments. The first instalment of \$55 must be paid on or before November 1st, and the second instalment of \$50 on or before February 1st.

Students receiving instruction during the Fifth year are required to pay a fee of \$50. On the payment of this fee the student shall be permitted to attend all clinics and whatever didactic lectures he may desire : he shall also be permitted to take laboratory work on the payment of the laboratory fees.

But no student shall be admitted to any of the University laboratories or lecture-rooms until all the fees which may be due by him, for the session or term, have been paid.

Students who registered in the Faculty of Medicine before the year 1897 will be permitted to receive instruction in the University of Toronto on payment of the fees stipulated in the Calendar for the session 1896-97.

Students in the Fourth year will be required, in addition, to pay a fee of \$5 for the extra-mural class in Medical Psychology.

Fees connected with examinations and the granting of Degrees—

For Matriculation or Registration of Matriculation	\$ 5 00
For Annual Examinations (each)	10 00
For Examination in Practical Chemistry	0 50
For Admission <i>ad eundem statum</i>	10 00
For the Degree of M.B.	20 00
For the Degree of M.D.	20 00
For Admission <i>ad eundem gradum</i>	20 00

Special attention of the Students is called to the fact that the Bursar's Office hours are from 10 a.m. till 1 p.m. Fees will in no case be received on Saturday, and on other days the regulation respecting the hours specified will be strictly adhered to.

All fees are payable to the Bursar.

required by the curriculum in medicine, may obtain certified tickets for the same from the Registrar of the University on payment of the ordinary fee demanded from students in medicine.

Matriculated students or graduates in Arts in the department of Natural Sciences who are taking or have taken the Honour course in any subject in the Faculty of Arts which is or shall be held by the Senate equivalent to any of the subjects prescribed in the medical curriculum, may be permitted to take Practical Anatomy, on the payment of a fee of \$40;

Dermatology—Jackson, \$2.75 ; Crocker, \$4.50 ; Robinson, \$5 ; American Text Book of Dermatology, \$8 ; Jamieson, \$6.

Biology—Parker, \$2.60 ; Huxley, \$2.60.

Physics—Gage's Principles of Physics, \$1.25 ; Daniell's Physics for Medical Students, \$1.25.

Ophthalmology—Nettleship, \$2 ; Swanzy, \$3 ; Juler, \$5.50 ; de Schweinitz, \$4 ; Carter & Frost, \$2.25.

Otology—Pritchard's, \$1.50 ; Field, \$3.75 ; Buck, \$2.50 ; Roosa, \$5.50 ; Bacon's Manual of Otology, \$.

Mental Diseases—Clarke, \$1.25 ; Savage, \$2 ; Accident and Injury, Bailey, \$5.

Laryngology—Seiler, \$2 ; Williams, \$2.50 ; Lennox Brown, \$6.50 ; Bosworth, 2 vols., \$5.50.

\$55 must be paid on or before November 1st, and the second instalment of \$50 on or before February 1st.

Students receiving instruction during the Fifth year are required to pay a fee of \$50. On the payment of this fee the student shall be permitted to attend all clinics and whatever didactic lectures he may desire : he shall also be permitted to take laboratory work on the payment of the laboratory fees.

But no student shall be admitted to any of the University laboratories or lecture-rooms until all the fees which may be due by him, for the session or term, have been paid.

Students who registered in the Faculty of Medicine before the year 1897 will be permitted to receive instruction in the University of Toronto on payment of the fees stipulated in the Calendar for the session 1896-97.

Students in the Fourth year will be required, in addition, to pay a fee of \$5 for the extra-mural class in Medical Psychology.

Fees connected with examinations and the granting of Degrees—

For Matriculation or Registration of Matriculation	\$ 5 00
For Annual Examinations (each)	10 00
For Examination in Practical Chemistry	0 50
For Admission <i>ad eundem statum</i>	10 00
For the Degree of M.B.	20 00
For the Degree of M.D.	20 00
For Admission <i>ad eundem gradum</i>	20 00

The fee for examination and, in the case of candidates of the Fourth year, that for the degree, must be paid to the Bursar not later than April 15th.

Tickets of admission to any of the courses of lectures or practical instruction will be issued by the Registrar of the University on payment of the fees, and the attendance of the students at such courses must be certified on the backs of the tickets by the professors, lecturers, demonstrators or instructors, before such tickets will be received by the Registrar as entitling the possessors to proceed to examination.

Matriculated students or graduates in the Faculty of Arts, who have attended during the Arts course any course of lectures or of practical instruction of the character and duration required by the curriculum in medicine, may obtain certified tickets for the same from the Registrar of the University on payment of the ordinary fee demanded from students in medicine.

Matriculated students or graduates in Arts in the department of Natural Sciences who are taking or have taken the Honour course in any subject in the Faculty of Arts which is or shall be held by the Senate equivalent to any of the subjects prescribed in the medical curriculum, may be permitted to take Practical Anatomy, on the payment of a fee of \$40 ;

Anatomy, a course of lectures, \$20 ; *Materia Medica*, a course of lectures, \$15. Such students may also be permitted to present themselves for examination at the end of the session, provided they have duly registered as students in the Faculty of Medicine and possess the certificates required for the examination, as detailed in this Calendar.

Matriculated students or graduates in Arts in the department of Natural Sciences who have taken honours in any examination in the Faculty of Arts which is or shall be held by the Senate equivalent to any of the examinations prescribed in the medical curriculum, may obtain tickets for such qualifying classes attended by them without the payment of the corresponding fees.

Certificates of attendance on such lectures or demonstrations will only be given on the presentation of such tickets.

The Hospital fees—payable to the Hospital authorities—are as follows:—

Perpetual ticket	\$34 00
Annual ticket	14 00
Burnside Lying-in Hospital ..	8 00

Undergraduate Scholarships.

The following scholarships are annually offered for competition amongst students who attend the Lectures of the University Medical Faculty:—

At First examination	one of \$50
“	one of \$30
At Second examination	one of \$50
“	one of \$30

Every student taking a scholarship is required to sign a declaration that it is his intention to pursue his medical studies for two or three years, according to the year in which he has taken such scholarship, and to proceed to a degree in the University of Toronto, and that he is not an undergraduate or graduate in the Faculty of Medicine of any other University.

No scholarship will be awarded to any candidate who has not obtained honours in the examination for which it is conferred.

Each scholarship is tenable for one year only, but a scholar of one year is eligible for the scholarship of a succeeding year.

The scholarships or medals are not open to those who are at the same time undergraduates or graduates in Medicine of another University.

No undergraduate in the Honour course, who shall have degraded into a lower year, shall be permitted at any ensuing examination to compete for medals or scholarships, except by special permission of the Faculty, to be granted only in case of illness or for other grave reasons.

Medals, Prizes, and Certificates of Honour.

A gold medal and three silver medals are offered annually for competition among those students of the Medical Faculty who are honour candidates for the degree of M.B., and will be awarded on the recommendation of the Examiners.

Examinations in the Third Year.

Examinations (chiefly clinical) will be conducted by the Medical Faculty, at the end of the Third year, in Medicine, Surgery, and Obstetrics.

Time Table, Session 1899—1900.
First Year.

	Mon.	TUE.	WED.	THU.	FRI.	SAT.
Elementary Biology and Physiology	9	8.30-11	9	8.30-11	9	.....
Practical Biology .....	.....	1-5	.....	.....	11	.....
Practical Chemistry	10	11	10	11	10	.....
Anatomy	12	.....	12	.....	12	.....
Physics	2	.....	.....	2	.....	.....
Material Medica	3-6	1-6	1-6	3-6	3-6	9-12
Practical Anatomy	12	.....	12	.....	12	.....
Physiological Lectures and Demonstrations.	.....	.....	.....	.....	.....	.....

{ Monday lecture during
Mich. Term only.

Mich. Term.

Easter Term.

Second Year.

	Mon.	TUE.	WED.	THU.	FRI.	SAT.
Histology. (During October only).....	9	11	9	11	11	.....
Embryology. (During November and December).	.....	9	.....	9	10	.....
Physiology. (a) During October	11	10-12	11	10-12	10	.....
(b) During remainder of session .....	.....	.....	.....	11	11	.....
Anatomy. (a) During October .....	.....	9	.....	9	9	9
(b) During November and December .....	.....	9	.....	9	9	9
(c) During remainder of session .....	.....	9	.....	9	9	9
Practical Histology. (a) During October	10-12	.....	10-12	.....	.....	.....
(b) During remainder of session	9-11	.....	9-11	.....	.....	.....
Chemistry.....	12	.....	.....	.....	12	.....
Practical Chemistry .....	.....	12	1-5	.....	.....	.....
Material Medica	2	.....	.....	2	2	.....
Practical Anatomy	3-6	1-6	1-6	3-6	3-6	10-12

Third Year.

	Mon.	TUE.	WED.	THU.	FRI.	SAT.
Surgery	8.30	.....	8.30	.....	.....	.....
Medicine	9.30	.....	9.30	.....	.....	.....
Obstetrics.....	.....	9.30	.....	9.30	9.30	9.30
Pathology.....	10.30-11.30	.....	11.30-12.30	.....	.....	.....
Therapeutics.....	.....	8.30	.....	8.30	.....	10.30-12.30
Pathological Demonstrations.....	11.30-12.30	.....	10.30-11.30	.....	10.30	.....
Medical Jurisprudence.....	.....	10.30	.....	.....	8.30	.....
Minor Surgery .....	.....	.....	.....	.....	9.30	.....
Tutorial Class in Medicine.....	.....	9.30	.....	10.30	9.30	.....
Disease in Children.....	.....	.....	.....	.....	.....	.....

{ Tues. and Thurs. lectures
in Mich. Term only.
Fri. and Sat. lectures in
Easter Term only.{ Tues. lecture during Easter
Term only.
Fri. lecture during Mich.
Term only.

Fourth Year.

	Mon.	Tue.	Wed.	Thur.	Fri.	Sat.
Surgery.....	8.30		8.30			
Medicine.....	9.30		9.30			
Gynecology.....		9.30		9.30		
Clinical Gynecology (Special Class).			4.30		4.30	
Hygiene.....		10.30			11.30	
Topographical Anatomy.....	10.30		10.30			
Pathology.....	11.30		11.30			
Pathological Demonstrations.....		11.30		11.30-12.30		10.30-12.30
Obstetrics.....					9.30	9.30
Toxicology.....					10.30	
Ophthalmology and Otolaryngology.....					8.30	
Disease in Children.....				10.30	8.30	

} Tues. Lecture in Mich. Term only.

Easter Term only.
Mich. Term only.

Toronto General Hospital.

	Mon.	Tue.	Wed.	Thur.	Fri.	Sat.
Outdoor Clinics (Third Year).....	1.30	1.30	1.30	1.30	1.30	1.30
Clinical Laboratory.....	1.30	1.30	1.30	1.30	1.30	1.30
Gynecological Clinic.....	2.30		2.30	2.30		
Ward Clinics (Third and Fourth Year).....	3	3	3	3	3	
Medical Clinic in Theatre.....	3.30					
Surgical Clinics and Operations.....		2			2	
Eye and Ear Clinic.....		3	3		3	3
Throat and Nose Clinic.....		3			3	
Skin Clinic.....			2			

St. Michael's Hospital

	Mon.	Tue.	Wed.	Thur.	Fri.	Sat.
Ward Clinics.....	2.30	2.30	2.30	2.30	2.30	
Operations.....	2			2		

Hospital for Sick Children.

	Mon.	Tue.	Wed.	Thur.	Fri.	Sat.
Clinics.....	1.30	1.30	1.30	1.30	1.30	1.30
Outdoor Clinic.....	2.30	2.30	2.30	2.30	2.30	2.30

The University of Toronto Medical Society.

This Society consists of the graduates and undergraduates enrolled in the Faculty of Medicine of the University of Toronto. It is under the patronage of the members of the Medical Faculty and its object is to deal with all matters pertaining to the general interest and welfare of the students, especially :

(a) To encourage interest in general medical science and literature, and in the pursuit of medical studies.

(b) To provide a supply of periodicals and magazines for the reading rooms.

(c) To be a means of communication between the Student body and the Faculty or any other body, when such communication is desirable.

OFFICERS OF THE SOCIETY.

Honorary President—R. A. REEVE, B.A., M.D., Dean of the Faculty.

President—P. L. SCOTT.

Vice-President—J. A. CAMPBELL.

Corresponding Secretary—W. F. MCKAY.

Recording Secretary—A. T. STEELE.

Honorary Treasurer—R. J. DWYER, M.B.

Treasurer—N. L. ROGERS.

Assistant Treasurer—H. JONES.

Curator—F. P. COATES.

Councillors—D. SMITH, J. W. GRAY.

University of Toronto Medical Students' Young Men's Christian Association.

The association is divided into two sections; one for the Primary years, of which Mr. W. T. Kergin is President, and which meets in the building of the University Young Men's Christian Association; the other for the Final years, of which Mr. S. E. Charlton is President, and which meets in the building of the Medical Faculty in Gerard Street East.

The meetings are held weekly. The clergy and other prominent residents of the city frequently take part in the proceedings.

The objects of the association are to form a bond of union between medical students whose principles and aim in life are "Christian," and to render whatever practical assistance is possible to all medical students, especially those who are entering upon their medical studies. The Reception Committee of the association will be at the Union Station to meet and welcome all incoming students and to give any information and assistance that may be required. A list of suitable boarding houses will be available for the convenience of those who require it.

Mr. S. E. Charlton, of Galt, will be glad to communicate with any one desiring information regarding the association.

REGULATIONS RELATING

TO THE

EXAMINATIONS AND GRANTING

OF

DEGREES IN MEDICINE.

Degree of M.B.

The Degree of M.B. is given to candidates who have matriculated and who have attended during four sessions of at least eight months each the course of instruction as required by this curriculum, and who have passed three examinations taken in the following order : the First at the end of the first session ; the Second, at the end of the second session ; and the Final, at the end of the fourth session.

Entrance.

Candidates for a degree must pass the Matriculation examination, unless (1) they possess a degree in Arts not being an Honorary Degree, from any Dominion or British University ; or (2) have already matriculated in the Faculty of Arts or in the Faculty of Law in this University ; or (3) have been registered as Matriculates in the College of Physicians and Surgeons of Ontario.

Before presenting themselves for examination, candidates must produce satisfactory certificates of good conduct, and of having completed the sixteenth year of their age.

The ordinary Annual Matriculation examinations (both Pass and Honour) will commence in the beginning of July.

Supplemental examinations for Matriculation will be held in the latter part of September, at which those who were rejected at the July examinations, as well as new candidates, may offer themselves : but no honours or scholarships will be awarded at such Supplemental examinations.

The fee for the Junior Matriculation examination is five dollars, that is, two dollars for Part I, and five dollars for Part II, when taken separately, or five dollars for both parts taken at the same time, and must be paid when the application for the examination is made, according to the regulations issued by the Education Department, under whose superintendence this examination is now conducted. The fee for registration of exemption from the Matriculation examination is five dollars.

Candidates may delay presenting themselves for the Matriculation examination until any time before the Second examination for the degree of M.B. ; but

no candidate will be allowed to compete for relative standing, prizes or scholarships, until he has passed the Matriculation examination.

Candidates intending to compete for scholarships at Matriculation are required to notify the Registrar of the University to that effect before May 24th, in addition to the application required to be made as above stated to the Education Department.

No fee will be charged for transferring from the Faculty of Arts to that of Medicine.

For subjects of examination at Junior Matriculation, Pass and Honour, see Appendix.

Regulations Relating to Undergraduates.

Undergraduates are required to attend lectures, and receive practical instruction during each of four years, at any of the schools of Medicine recognized for this purpose by the University.

The Senate may accept certificates of attendance at the lectures and in the laboratories of affiliated institutions other than Medical Schools.

They are required to present certificates of attendance on the various courses of lectures and practical instruction required for each examination.

The annual examinations are styled the First, Second, and Final examinations, and are to be passed at the end of the First, Second and Fourth academic years respectively.

Undergraduates below the standing of the Fourth year, who have been rejected or who have been prevented from attending the annual examinations, by sickness, domestic affliction, or other causes beyond their control, may present themselves for examination in September at the Supplemental examinations. Candidates at any examination who have passed in the majority of the subjects required may present themselves at the Supplemental examinations next ensuing, in the subjects in which they failed, and upon passing at such examinations, shall be allowed their year. Candidates who failed to attend at the annual examinations, must prove to the satisfaction of the Senate before presenting themselves in September, the existence and sufficiency of the alleged cause of absence. Candidates who were rejected must pay a fee of ten dollars, and those who did not attend a fee also of ten dollars, before offering themselves for the Supplemental examination.

Graduates in Arts of the University may enter at the Second examination, but will be required to take such subjects of the First examination as they have not taken in their Arts course, though in these subjects they shall not be required to take an Honour standing. In the case of Undergraduates in Natural Sciences, certificates of attendance on the second course of Practical Anatomy and on the second course of fifty lectures on Anatomy, may be presented with the certificates of attendance on the lectures of the Third year. (For list of equivalent examinations, see page 183.)

The fee for each examination is ten dollars, payable when the candidate notifies the Registrar of his intention to present himself.

Notice will be given annually, in January, of the days on which the exami-

nations for the year will commence. Every undergraduate who proposes to present himself at an examination must send to the Registrar a statement (according to a printed form which will be furnished) of the course he is taking, whether he intends to compete for Honours, and such other particulars as the printed form may indicate, together with the original certificates referred to in this statement.

Certificates are required for the different examinations as follows :

First examination—

Of having attended :

In Anatomy, a course of at least 50 lectures.

“ Physiology, a course of at least 50 lectures and demonstrations.

“ Inorganic Chemistry, a course of at least 50 lectures.

“ Physics, a course of at least 25 lectures and demonstrations.

“ Biology, “ “ 40 “

“ Practical Chemistry, a course of at least 50 hours.

“ “ Biology, “ “ “ 50 “

“ “ Anatomy, a course of instruction during six months.

Second examination—

Of having attended :

In Anatomy, a second course of at least 50 lectures.

“ Physiology, a second course of at least 50 lectures and 50 demonstrations.

“ Organic Chemistry, a course of at least 50 lectures.

“ Materia Medica and Elementary Therapeutics, a course of at least 50 lectures.

“ Embryology and Histology, a course of laboratory instruction of at least 50 hours.

Practical Chemistry, a second course of laboratory instruction of at least 50 hours.

“ Practical Anatomy, a second course of instruction during six months.

“ Practical Pharmacy, a course of instruction during three months.

Final examination—

I. Of having attended :

In Medicine, two courses, each of at least 50 lectures.

“ Clinical Medicine, “ “ 50 “

“ Surgery, “ “ 50 “

“ Clinical Surgery, “ “ 50 “

“ Pathology, “ “ 50 “

“ Practical Pathology, two courses of instruction each of at least 50 hours.

“ Obstetrics, physiological, a course of at least 50 lectures.

“ Obstetrics, pathological, “ “ 30 “

“ Gynecology, a course of at least 50 lectures.

“ Medical Jurisprudence and Toxicology, a course of at least 50 lectures.

“ Topographical Anatomy, a course of instruction of at least 50 hours.

“ Materia Medica and Therapeutics, a second course of at least 50 lectures.

“ Hygiene, a course of at least 25 lectures.

“ Medical Psychology, a course of at least 12 lectures.

2. Of having conducted at least six labours.
 3. Of proficiency in vaccination.
 4. Of attendance for eighteen months in the wards of a public hospital having not less than 100 beds.
 5. Of attendance for twelve months on the out-practice of a hospital, or dispensary, or with a registered practitioner.
 6. Of having passed the Faculty examination of the Third year.
 7. Of having attended twelve autopsies.
- (NOTE.—In respect to 2 and 3, certificates will be received from any registered practitioner.

Subjects of the Different Examinations.

FIRST EXAMINATION.

1. Physics.
2. Chemistry (Inorganic).
3. Biology.

SECOND EXAMINATION.

1. Anatomy.
2. Physiology.
3. Embryology and Histology.
4. Materia Medica and Elementary Therapeutics.
5. Chemistry (Organic and Physiological).

FINAL EXAMINATION.

1. Medicine and Clinical Medicine.
2. Surgery and Clinical Surgery.
3. Obstetrics.
4. Pathology.
5. Therapeutics.
6. Gynæcology.
7. Medical Jurisprudence and Toxicology.
8. Hygiene.
9. Medical Psychology.
10. Topographical Anatomy.

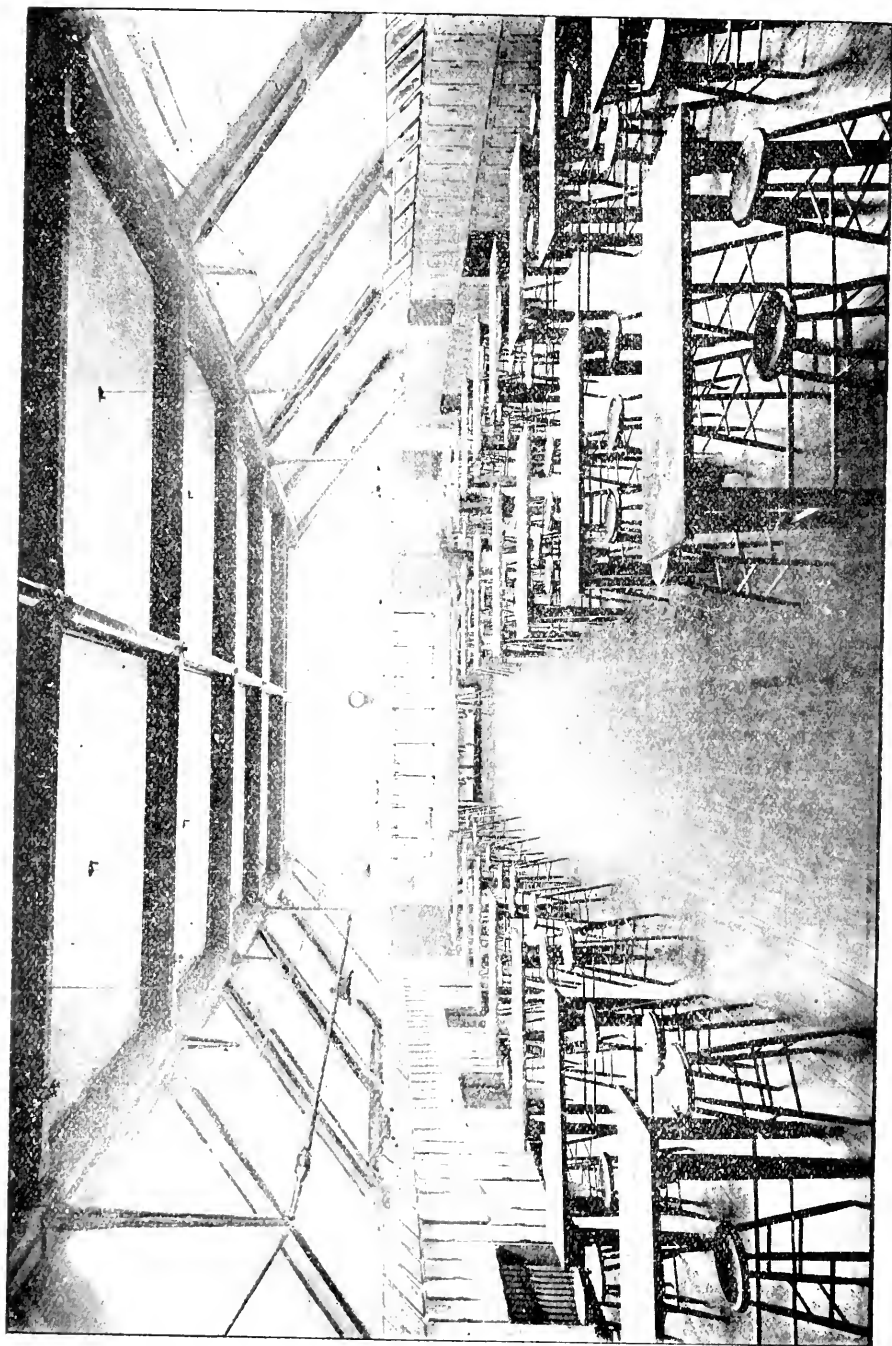
Examinations for Honours.

Candidates taking seventy-five per cent. of the aggregate number of marks in the Pass and Honour papers of the First or Second examination, or of one or more of the groups of subjects in the Final examination will be placed in the Honour list.

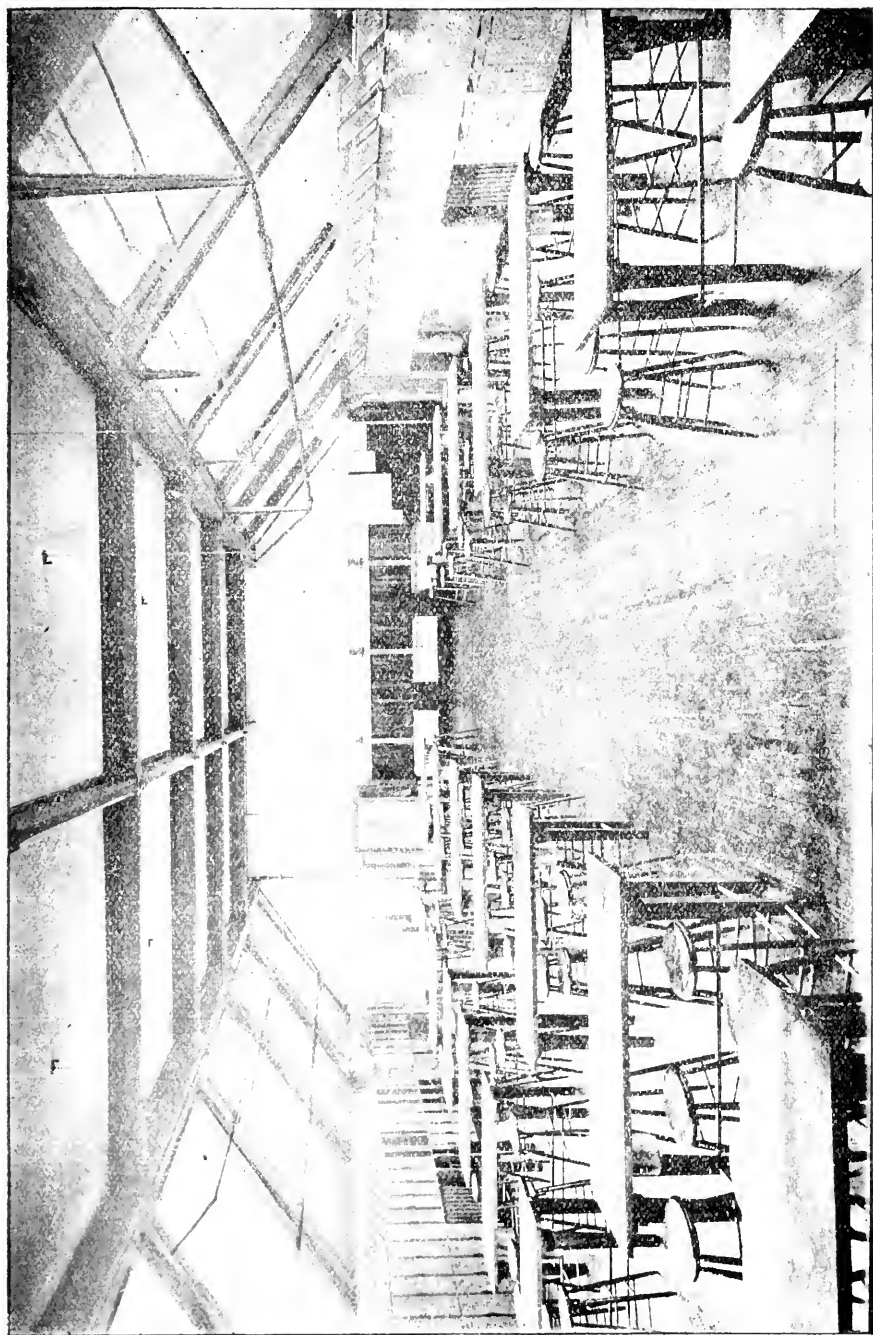
Additional papers on all Pass subjects of an examination may be set for the Honour candidates.

The subjects of the Final examination are grouped for Honours as follows :

- Group I. 1. Medicine and Clinical Medicine.
 2. Pathology.
 3. Therapeutics.



The Dissecting Room, Eastern Hall.



The Dissecting Room, Western Hall.

- Group II. 1. Surgery and Clinical Surgery.
2. Pathology.
3. Topographical Anatomy.
- “ III. 1. Obstetrics.
2. Gynaecology.
3. Pathology.
- “ IV. 1. Medical Jurisprudence and Toxicology.
2. Hygiene.
3. Medical Psychology.

Only those Candidates will receive their Degree with Honours who have obtained Honours in the First, Second, and Final examinations.

Equivalent Examinations.

Courses of lectures and examinations in the Faculty of Arts are accepted in the place of courses of lectures and examinations in the Faculty of Medicine, according to the following scheme :—

FACULTY OF ARTS.

FACULTY OF MEDICINE.

1. Honour course and examination in Second Year } equivalent to { course and examination in First Year Biology, and Biology.
2. Honour course and examination in Second Year } equivalent to { course and examination in First Year Inorganic Chemistry, and Physics of the Honour course } Chemistry and Physics.
3. Honour course and examination in Third Year } equivalent to { course and examination in Second Year Chemistry (with the exception of Chemistry applied to Chemistry.
4. Honour course and examination in Fourth Year } equivalent to { course and examination in Second Year Physiology and Biology.
5. Attendance at the Honour course and examination in the Fourth Year Physiological Chemistry, in the Faculty of Arts, is equivalent to attendance at the course of and examination in Chemistry applied to Physiology of the Second Year in the Faculty of Medicine.

N.B.—Candidates who desire to compete for scholarships and medals are required to submit to the annual examinations in all the subjects of each examination, though otherwise entitled to partial exemption according to the preceding scheme ; and candidates not competing for scholarships or medals, who are entitled to exemption according to the preceding scheme, will hold the same rank in Honours in these subjects as they obtained in the equivalent examinations in Arts.

Students of the Fourth Year Natural Science course in Arts, who propose to offer themselves for the Second examination in Medicine, may defer the examination in *Materia Medica* to the Final examination.

Degree of M.D.

Bachelors of Medicine of at least one year's standing, may obtain the degree of M.D. on the fulfilment of either of the following conditions:—

1. Having composed a thesis of approved merit on some scientific subject in the Department of Medicine, or
2. Having passed an examination in Clinical Medicine and Surgery,* together with an examination in the History of Medicine.†

* The examination in these subjects is additional to that required for the degree of M.B.

† It is proposed to formulate a list of topics in this subject and to name a Text-Book on the History of Medicine for 1900.

Admission *ad Eundem Statum*.

Undergraduates of other Universities applying for admission *ad eundem statum* must present certificates of having passed the examinations in the various subjects of this curriculum preliminary to the examination for which they desire to present themselves.

Admission *ad Eundem Gradum*.

A graduate of any of the Universities in Great Britain or Ireland, if his degree be not an honorary one, may be admitted to the like degree in the University of Toronto. He must send in his certificate to the Registrar at least two weeks before the first meeting of the session of the Senate at which his application is to be brought forward.

Fees for Degrees.

For the degree of M.B.	Twenty dollars.
For the degree of M.D.	Twenty dollars.
For admission <i>ad eundem gradum</i>	Twenty dollars.

The fee for the Bachelor's Degree must be paid to the Bursar not later than April 15th.

The George Brown Memorial Scholarship in Medical Science.

Dr. A. H. F. Barbour, of Edinburgh, having placed a sum of money at the disposal of the University of Toronto, for the purpose of founding a Scholarship in Medical Science in memory of the late Hon. George Brown, the following regulations have been adopted with regard thereto:—

This scholarship shall be called the George Brown Memorial Scholarship in Medical Science and shall be awarded annually at the convocation for conferring degrees in medicine to the Bachelor of Medicine who shall have dis-

tinguished himself most during his Undergraduate course in the subjects of Anatomy, Biology, Physiology and Pathology.

The comparative value of the several subjects is to be estimated according to the following schedule :—

1st year—Biology.....	200
2nd year—Anatomy.....	300
Physiology	300
Embryology and Histology	100
4th year—Pathology.....	300
Total	1200

The award shall be made by a committee composed of the Professors in these subjects, and of the Examiners for the time being therein, who shall report as to the successful candidates, after having given due attention to the results of the Annual examinations, and to the character of the work done by the candidates in the University laboratories.

The holder of the scholarship during the year of tenure is required to engage in original research in any one of the laboratories of the University, on some subject bearing on the advancement of medical science—the laboratory providing the material for the investigation.

The scholarship is to be paid in two portions, two-thirds at the time of award and one-third six months later, on the holder giving a satisfactory report (to whomsoever the University may appoint) of the work he has already done.

A report of the research, when completed, is to be given to the University.

The value of the scholarship consists in the proceeds of one thousand pounds sterling, invested at the rate of interest secured by the University for such benefactions.

The scholarship is tenable for one year.

The Reeve Scholarship in Medical Science.

Dr. R. A. Reeve has donated a sum of money to the University of Toronto for the purpose of providing a Scholarship of the value of \$250, to be awarded annually for four years. The Scholarship is designed to foster the spirit of original research and to promote the utilizing of the Laboratories of the University for that purpose.

The conditions on which the Scholarship will be awarded are as follows :—

The Scholarship will be awarded to the candidate who shall have gained the highest standing at the Final Examination in Medicine in the University of Toronto in the following subjects :—

- Medicine and Clinical Medicine.
- Surgery and Clinical Surgery.
- Obstetrics.
- Pathology.

The candidate shall agree to devote himself during the next ensuing year, under the direction of the Medical Faculty, to research work in the Physiological or Pathological Laboratory of the University, and also to act as Laboratory Assistant.

A report of the research, when completed, is to be given to the University, whose property it shall become ; and it shall be published at the discretion of the University Council.

The Scholarship is to be paid in two portions, one-half on October 1st and one-half on February 1st. A report of the work accomplished by the scholar must be furnished before the final payment. This report will be presented to the Faculty, and must be approved as representing satisfactory work done up to date before the final payment is made.

The winner of the George Brown Memorial Scholarship shall not be eligible.

The subjects shall be valued as follows :—

Medicine	200	marks.
Clinical Medicine	200	“
Surgery	200	“
Clinical Surgery	200	“
Obstetrics	200	“
Pathology	200	“
Total	1200	“

The Starr Medals.

The late Richard Noble Starr, M.D., devised certain property for the encouragement of post-graduate study in Anatomy, Physiology and Pathology, and in fulfilment of this object one gold and two silver medals, called the “Starr Medals,” are awarded annually to three candidates for the degree of M.D., who have shown by the theses which they have presented for that degree, that they have successfully pursued such study in any one of these subjects. The theses for which these medals are given must attain a standard approved of by the Board of Examiners, and the relative value of the theses will determine the rank of the candidates for the medals.

MEDALLISTS.

Medicine.

g, gold medal; s, silver medal.

YR.		YR.		YR.	
53	Oille, L. S., <i>g.</i>	72	Zimmerman, R., <i>g.</i>	88	Féré, G. A., <i>g.</i>
	Aikins, M. H., <i>s.</i>		Crozier, J. B., <i>s.</i>		Galloway, J., <i>s.</i>
	Millar, T., <i>s.</i>	73	Close, J. A., <i>g.</i>	89	Chambers, G., <i>g.</i>
59	Barnhart, C. E., <i>g</i> ¹		Beeman, M. L., <i>s.</i>		Collins, J. H., <i>s.</i>
	King, J., <i>s.</i>		Wright, A. H., <i>s.</i>		Godfrey, F. E., <i>s.</i>
	Francis, W. F., <i>s.</i>		Hagel, S. D., <i>s.</i>	90	Barker, L. F., <i>g.</i>
60	Bascom, J., <i>g.</i>	74	Fraser, D. B., <i>g.</i>		Cullen, T. S., <i>s.</i>
	Playter, E., <i>s.</i>		Brown, O. C., <i>s.</i>		Philp, W. H., <i>s.</i>
	Tisdell, F. B., <i>s.</i>		Farewell, A., <i>s.</i>		McFarlane, M. J., <i>s.</i>
	Morton, E. D., <i>s.</i>		Cameron, I. H., <i>s.</i>		McGillivray, C. F., <i>s.</i>
	Ogden, W. W., <i>s.</i>		Shaw, G., <i>s.</i>	91	Barnhardt, W. N., <i>g.</i>
	Martyn, D. H., <i>s.</i>		Fraser, D., <i>s.</i>		Bollen, P., <i>s.</i>
61	Hudson, <i>g.</i>	75	Britton, W., <i>g.</i>		Boyd, G., <i>s.</i>
	Elliott, J. D., <i>s.</i>		White, J., <i>s.</i>		McGorman, G., <i>s.</i>
62	Dolster, J., <i>g.</i>		Bennett, J. H., <i>s.</i>	92	Bruce, H. A., <i>g.</i>
	DeGrassi, G. P., <i>g.</i>		Eakins, J. E., <i>s.</i>		Middlebro, T. H., <i>s.</i>
63	Ramsay, W. F., <i>g.</i>	76	McPhedran, A., <i>g.</i>		Gowland, R. H., <i>s.</i>
64	McLaughlin, J. W., <i>g.</i>		Lackner, H. G., <i>s.</i>		Brown, J. N. E., <i>s.</i>
65	Burnham, E. L., <i>g.</i>		Bowerman, A. C., <i>s.</i>	93	Harvie, J. E., <i>s.</i>
	McCarthy, J. L. G., <i>s.</i>		Wilson, W. J., <i>s.</i>		South, T. E., <i>s.</i>
	Kychen, E. E., <i>s.</i>	77	Stuart, W. T., <i>g.</i>		Elliott, W., <i>s.</i>
66	Mickle, W. J., <i>g.</i>		Orr, R. B., <i>s.</i>		Futcher, T. B., <i>Æ, s.</i>
	McCullough, J., <i>s.</i>		Richards, N. D., <i>s.</i>		Harvey, E. E., <i>g.</i>
	Wadsworth, J. J., <i>s.</i>	78	Griffin, H. S., <i>g.</i>	94	McCollum, W. J., <i>g.</i>
67	Sparks, T., <i>s.</i>		Meek, H., <i>s.</i>		Rutledge, H. N., <i>s.</i>
	Palmer, R. N., <i>s.</i>		Bonnar, J. D., <i>s.</i>		Crain, W. E., <i>s.</i>
	Harbottle, R., <i>s.</i>		Kennedy, G. A., <i>s.</i>		Johnston, H. A., <i>s.</i>
	Eccles, F. R., <i>s.</i>		Gardiner, J. H., <i>s.</i>	95	Merritt, A. K., <i>g.</i>
	McFarlane, L., <i>s.</i>	79	Burt, F., <i>g.</i>		McKay, T. W. G., <i>s.</i>
	Newton, J. H., <i>s.</i>		Mills, R. P., <i>s.</i>		McCrae, T., <i>s.</i>
68	Brown, J. P., <i>g.</i>		Chappell, W. F., <i>s.</i>		Hunter, A. J., <i>s.</i>
	Hunt, R. H., <i>g.</i>	80	Cross, W. J., <i>g.</i>	96	McCaig, A. S., <i>g.</i>
	Howe, T. C., <i>s.</i>		Bryce, P. H., <i>s.</i>		Roberts, E. L., <i>g.</i>
69	Graham, J. E., <i>g.</i>		Ferguson, J., <i>s.</i>		Graef, C., <i>s.</i>
	Humble, C., <i>s.</i>	81	Duncan, J. H., <i>g.</i>		Goldie, W., <i>s.</i>
	McCollum, J. H., <i>s.</i>	82	Wallace, R. R., <i>g.</i>		MacKinn, A. H., <i>s.</i>
	Bentley, T. B., <i>s.</i>		Duncan, J. T., <i>s.</i>	97	Elliott, J. H., <i>g.</i>
70	Greenless, A., <i>g.</i>	83	Robinson, W. J., <i>g.</i>		Hume, J. J. C., <i>s.</i>
	Burgess, T. J. W., <i>s.</i>	84	Dolsen, F. J., <i>g.</i>		Niehol, R., <i>s.</i>
	Smith, C. M., <i>s.</i>	85	Clerke, J. W., <i>g.</i>		Yeomans, W. L., <i>s.</i>
	Standish, J., <i>s.</i>		Howell, J. H., <i>g.</i>	98	McCrae, J., <i>g.</i>
	Wagner, W. J., <i>s.</i>		Carr, L., <i>s.</i>		Sutherland, G. A., <i>s.</i>
	Burt, W., <i>s.</i>	85	Saunders, M. R., <i>s.</i>		White, W. C., <i>s.</i>
70	Williams, A. D., <i>s.</i>		Hoople, H. N., <i>s.</i>		Cahoon, F., <i>s.</i>
71	Forrest, W., <i>g.</i>	86	Peters, G. A., <i>g.</i>	99	Wells, W., <i>g.</i>
	Moore, C. Y., <i>s.</i>		Noecker, C. T., <i>g.</i>		Haigraue, H. G., <i>s.</i>
	Henning, N. P., <i>s.</i>		Johnston, D. R., <i>s.</i>		Piersol, W. H., <i>s.</i>
	Delamatter, R. H., <i>s.</i>	87	Ego, A., <i>g.</i>		Gow, J., <i>s.</i>

Starr Medallists.

67	Palmer, R. N.	73	Hagel, S. D., <i>s.</i>	90	Cross, W. J., <i>g.</i>
68	Hunt, R. H.	74	Brown, O. C., <i>g.</i>		Bryce, P. H., <i>g.</i>
	Brown, J. P.		Farewell, A., <i>s.</i>	81	Duncan, J. H., <i>g.</i>
	Cassidy, J. J.		Campbell, A. J., <i>s.</i>	82	Wallace, R. R., <i>g.</i>
69	Graham, J. E.	75	Britton, W., <i>g.</i>	83	Robinson, W. J., <i>g.</i>
	Burgess, T. J. W., <i>g.</i>		White, J., <i>s.</i>	86	Peters, G. A., <i>g.</i>
	Greenless, A., <i>s.</i>		Bennett, J. H., <i>s.</i>	89	Collins, J. H., <i>g.</i>
	Wagner, W. J., <i>s.</i>	76	Lackner, H. G., <i>g.</i>		Chambers, G., <i>s.</i>
71	Moore, C. Y., <i>g.</i>		McPhedran, A., <i>s.</i>	90	Barker, L. F., <i>g.</i>
	Henning, N. P., <i>s.</i>		Bowerman, A. C., <i>s.</i>	91	Barnhardt, W. N., <i>g.</i>
	Forrest, W., <i>s.</i>	77	Stuart, W. T., <i>g.</i>		Middlebro, T. H., <i>g.</i>
72	Zimmerman, R., <i>g.</i>		Bonnar, H. A., <i>g.</i>		Bruce, H. A., <i>s.</i>
	Crozier, J. B., <i>s.</i>		Meek, H., <i>s.</i>	96	McKay, T. W. G., M. B.
73	Meldrum, N. W., <i>g.</i>	78	Griffin, H. S., <i>s.</i>		Rennie, J. A.
	Close, J. A., <i>s.</i>	79	Burt, F., <i>g.</i>	99	Hill, H. W.

Winners of Faculty Medals and Scholarships for 1899.

Medals.

Faculty Gold Medal	- - - - -	Wells, W.
First Faculty Silver Medal	- - - - -	Hargrave, H. G.
Second Faculty Silver Medal	- - - - -	Piersol, W. H.
Third Faculty Silver Medal	- - - - -	Gow, J.

Scholarships.

First Year	- - - - -	1. Fletcher, G. W.	
		2. Archer, A. E.	
Second Year	- - - - -	1. Clarkson, F. A.	} æq
		McCartney, G. E. R.	

POST GRADUATE SCHOLARSHIP.

THE GEORGE BROWN MEMORIAL SCHOLARSHIP IN MEDICAL SCIENCE.

For this Scholarship, Stanley, J. R., Wells, W., Neely, D. B., Hargrave, H. G., McTavish, F., Fletcher, W. G., ranked in the order named.

Students of the University Faculty who received the Degrees in Medicine at the Annual Examinations of 1899.

M.D.

Bollen, P.

Hill, H. W.

M.B.

Archibald, T. D.	Holmes, C. U.	Piersol, W. H.
Begg, C. L.	Jones, E. A.	Ramsey, G. H.
Bremner, W. C. P.	Kitchen, A. S.	Ratchiffe, W. G.
Brethour, H. F.	Kitchen, W. W.	Reid, J. B.
Burgess, A. M.	Knox, A. A.	Robinson, J. W.
Chisholm, J. S.	Leask, L. M.	Rutherford, J. W.
Clarke, W. T.	McArthur, P. R.	Schnarr, R. W.
Colville, N.	McCallum, S.	Stanley, J. R.
Couche, J. B.	Macdonald, W. A. C.	Tanner, A. W.
Dean, W. B.	McFall, W. A.	Turnbull, F. D.
Dillane, M. K.	McKenna, C. H.	Vivian, R. P.
Dowsley, G. W. O.	Mackenzie, J. J.	Wagner, C. J.
Fletcher, W. G.	McLeay, L.	Wales, F. C.
Gow, J.	McTavish, F.	Walters, J. J.
Hargrave, H. G.	Neely, D. B.	Wells, W.
Hawken, R. E.	Peters, J. H.	Young, F. A.

The University of Toronto.

FACULTY OF MEDICINE.

ANNUAL EXAMINATIONS: 1899.

First Examination.

(*Biology, Chemistry and Physics.*)

Honours.

- | | |
|--------------------|--------------------|
| 1. Fletcher, G. W. | 5. Klotz, O. |
| 2. Archer, A. E. | 6. Saunders, P. W. |
| 3. Roaf, H. E. | 7. McCordie, H. N. |
| 4. Davey, E. J. | |

Pass.

Anderson, Miss E. L.	Foster, R. F.	Montgomery, C. H.
Atkin, G. M.	Fry, E. E.	Murdoch, A.
Bell, W. J.	Godfrey, J. E.	Rutherford, R. W.
Brown, A.	Gray, J. W. P.	Shortt, F.
Campbell, N. S.	Huffman, J. L.	Smith, D.
Connor, Miss E.	Irwin, J. R.	Stauffer, L. L.
Draeseke, G. C.	McEachran, A. D.	Sullivan, H. J.
Elliott, H. R.	McGibbon, S.	Wallace, W. T.
Esler, J.	Maclaurin, N. T.	Withrow, O. C.
Fisher, A.	Michell, W. R.	Wright, A. B.

The following are matriculate students taking the First examination:—

Pass.

Armstrong, G. H. L.	Gunn, J. N.	*Nelles, A. P. F.
Campbell, H. S.	Hoidge, E. T.	*Penwarden, C. B.
Campbell, J. L.	James, P. E.	Sutherland, C. G.
Chambers, W. J.	*Jones, H.	*Welch, J. W.
*Currie, T. A.	Kergin, W. F.	Wray, G. S.
*Foster, E. J.	King, D. M.	*Wright, F. T.
Fraser, J. F.	Logan, H.	
Graham, J. S. A.	Moir, A.	

*To take Supplemental Examinations before completing the First Examination.

Chemistry (Theoretical).—Jones, H., Penwarden, C. B.

Physics.—Currie, T. A., Foster, E. J., Nelles, A. P. F., Welch, J. W., Wright, F. T.

Second Examination.

(*Anatomy, Physiology, Embryology and Histology, Chemistry and Materia Medica.*)

Honours.

1. † Clarkson, F. A.
 { McCartney, G. E. R.
3. Dixon, J. T.

Pass.

†Abbott, W. J.	*Dixon, I.	Pirie, G. R.
†Burns, W. T.	Doyle, Miss M.	Riches, J. F. S.
Campbell, C. C.	Ferguson, C. D.	Rutherford, A. B.
Cerswell, W. A.	Hamilton, W. T.	Smillie, J.
*Chisholm, J. D.	Hill, E. A.	Smith, J. A.
Christie, H. A.	*Kee, R. J.	Sproat, R. D.
+*Cleland, F. A.	*Lighthall, D. S.	Stanley, G. D.
Coates, T. P.	*McCollum, J. A.	Steele, A. T.
†Cohoe, B. A.	McIlwaith, D. G.	Storey, W. E.
Colbeck, O. W.	*McIntyre, W.	*Treble, C. E.
Colling, F. J.	†McKichan, M. D.	Wainwright, C. S.
Cronyn, W. H.	†Montgomery, A. H.	*Whealey, D. G.
*Davies, T. A.	*Moran, S. A.	Whitley, L. N.‡
Davis, G.	Morton, C. S.	

***† Graduates in Arts in the Department of Natural Science, Division I.—Biology.

Abbott, W. J., obtained honour standing in *Anatomy* and *Materia Medica*.

The following passed Supplemental Examinations :

Anatomy.—Connolly, E. L., Dittrick, H.

Physiology.—O'Brien, P. W., White, W. R.

Embryology and Histology.—Burgess, A. M., Connolly, E. L., Donald, W. B. L.

Chemistry (Theoretical).—Reid, J. B., Tanner, A. W., White, W. R.

To take Supplemental Examinations before completing the Second Examination :

Anatomy.—Kee, R. J., Treble, C. E.

Physiology.—Davies, T. A., Donald, W. B. L., Kee, R. J., Lighthall, D. S., Moran, S. A., Treble, C. Whealey, D. G.

Embryology and Histology.—McCollum, J. A., Whealey, D. G.

Chemistry (Theoretical).—Keith, J. P., McCollum, J. A.

Materia Medica.—Chisholm, J. D., Cleland, F. A., Dixon, I., Lighthall, D. S., McIntyre, W., Moran, S. A.

The following are Matriculate Students taking the Second Examination :

Pass.

* Cameron, A. J.

Campbell, J. A.

*Warren, C. A. A.

To take Supplemental Examinations before completing the Second Examination :

Physiology.—Cameron, A. J., Warren, C. A. A.

Chemistry (Theoretical).—Warren, C. A. A.

Materia Medica.—Cameron, A. J.

Final Examination.

Degree of Bachelor of Medicine with Honours.

1. Wells, W.
2. Hargrave, H. G.
3. Neely, D. B.
4. Stanley, J. R.
5. McTavish, F.
6. Fletcher, W. G.

Honors.

GROUP I.	GROUP II.	GROUP III.	GROUP IV.
<i>Medicine, Clinical Medicine, Pathology and Therapeutics.</i>	<i>Surgery, Clinical Surgery, Surgical Anatomy, and Pathology.</i>	<i>Obstetrics, Gynæcology and Pathology.</i>	<i>Medical Jurisprudence, Toxicology, Hygiene & Medical Psychology.</i>
1. Hargrave, H. G.	1. Hargrave, H. G.	1. Wells, W.	1. Wells, W.
2. Wells, W.	2. Wells, W.	2. Piersol, W. H.	2. Stanley, J. R.
3. Tanner, A. W.	3. Gow, J.	3. Hargrave, H. G.	3. f Gow, J.
4. Gow, J.	4. Tanner, A. W.	4. Stanley, J. R.	3. (Piersol, W. H.
5. McTavish, F.	5. Knox, A. A.	5. McTavish, F.	5. Hargrave, H. G.
6. Fletcher, W. G.	6. Neely, D. B.	6. Fletcher, W. G.	6. Mackenzie, J. J.
7. Neely, D. B.	7. Piersol, W. H.	7. Tanner, A. W.	7. Neely, D. B.
8. Begg, C. L.	8. f McArthur, P. R.	8. Colville, N.	
9. Piersol, W. H.	8. (Ratliffe, W. G.	9. Begg, C. L.	
10. Knox, A. A.	10. Fletcher, W. G.	10. Dillane, M. K.	
		11. Ratcliffe, W. G.	
		12. Conche, J. B.	
		13. Leask, T. M.	
		14. Turnbull, F. D.	
		15. McKenna, C. H.	
		16. Macdonald, W. A. C.	
		17. Neely, D. B.	
		18. Gow, J.	

Pass.

Archibald, T. D.	Dowsley, G. W.	O. McCallum, S.	Rutherford, J. W.
Bremner, W. C. P.	Hawken, R. E.	McFall, W. A.	Schnarr, R. W.
Brethour, H. F.	Holmes, C. U.	McLeay, L.	Vivian, R. P.
Burgess, A. M.	Jones, E. A.	Peters, J. H.	Wagner, C. J.
Chisholm, J. S.	* Keith, J. P.	Ramsey, G. H.	Wales, H. C.
Clarke, W. T.	Kitchen, A. S.	Reid, J. B.	Walters, J. J.
Dean, M. B.	Kitchen, W. W.	Robinson, J. W.	Young, F. A.

* To pass a Supplemental Examination in Theoretical Chemistry of the Second Examination before being admitted to the degree of M.B.

SUPPLEMENTAL EXAMINATIONS.**September, 1898.****MEDICINE.****First Examination.—Pass.**

Doran, W.

*Sutton, N. F.

The following passed Supplemental examinations in the subjects named :—

Physics.—Wainwright, C. S.; Warren, C. A. A.; Whealey, D. G.

Chemistry.—Doyle, Miss M.

* To pass a Supplemental examination before completing the First examination :—

Biology.—Sutton, N. F.

Second Examination.—Pass.

†Bell, C. C.

† Graduate in Arts in the Department of Natural Science, Division I.—*Biology*.

The following passed Supplemental examinations in the subjects named :—

Anatomy.—O'Brien, P. W.

Chemistry.—Burgess, A. M.

To pass Supplemental examinations before completing the Second examination :—

Physiology.—O'Brien, P. W.

Embryology and Histology.—Burgess, A. M.

Final Examination.

The following passed Supplemental examinations in the subjects named, completing the examination for the degree of M.B. :—

Obstetrics.—Hunter, G. L.; Taylor, W.; Trumpour, R. J.

Gynecology.—Trumpour, R. J.

STUDENTS REGISTERED IN THE FACULTY OF MEDICINE 1898-1899.

First Year.

Ansley, B. C.	Toronto.	Irwin, J. R.	Port Hope.
Archer, A. E.	St. Catharines.	James, P.	Galt.
Armstrong, G. H. L.	Richard's Landing.	Johnstone, D. S.	Orillia.
Atkin, G. M.	Milverton.	Jones, H.	Hamilton.
Bell, W. J.	Toronto Junction.	Kergin, W. T.	St. Catharines.
Biggar, L.	Toronto.	King, D. M.	Toronto.
Brown, A.	Motherwell.	Klotz, O.	Ottawa.
Campbell, H. S.	Grafton, Ohio.	Laughland, L. C.	Ottawa.
Campbell, J. L.	Ridgetown.	Logan, H.	Meaford.
Campbell, N. S.	Thornbury.	McChell, W. R.	Perth.
Chambers, W. J.	Lochalsh.	Noir, A.	Dunnville.
Charlton, S. R.	Toronto.	Montgomery, C. H.	Orillia.
Currie, T. A.	Toronto.	Mugan, P. T.	Toronto.
Davey, E. J.	Stoney Creek.	Mullin, R. H.	Hamilton.
Draeseke, G. C.	Dundas.	Murdoch, C.	Brucefield.
Elliot, H. R.	New Sarum.	McCordie, H. N.	Jura.
Esler, J. K.	Blake.	McEachran, A. D.	Glencoe.
Fisher, A.	Stratford.	McGibbon, S.	Arkona.
Fletcher, G. W.	Blenheim.	MacLaurin, N. T.	Toronto.
Flower, J.	Dunnville.	Nelles, A. P. F.	Hamilton.
Foster, E. J.	Kagawong.	Penwarden, C. B.	St. Thomas.
Foster, R. F.	Manitoulin Island.	Roaf, H. E.	Toronto.
Fraser, J. J.	Scottville, Mich.	Rutherford, R. W.	Chatham.
Fry, E. E.	Huttonville.	Saunders, P. W.	Toronto.
Gilmour, C. H.	Elmira.	Short, F.	Elora.
Godfrey, J. E.	Toronto.	Smith, D.	Embro.
Graham, J. A. S.	Meaford.	Smith, D. A.	Claude.
Gray, E. A.	Toronto.	Snell, A. E.	Bolton.
Gray, J. W.	Toronto.	Stauffer, L. L.	Waterloo.
Gunn, J. N.	Clinton.	Stewart, R.	Bluevale.
Haigh, E. J.	Toronto.	Sullivan, H. J.	Picton.
Harris, R. B.	Bloomfield.	Sutherland, C. G.	Hamilton.
Henderson, V. E.	Toronto.	Wallace, W. T.	Orangeville.
Hoag, J. M.	Nelson, B.C.	Welch, J. W.	New Westminster, B.C.
Hoidge, E. T.	Toronto.	Withrow, O. C.	Woodstock.
Huffman, J. L.	Aylmer.	Wray, G. S.	Schomberg.
		Wright, A. B.	Toronto.

Second Year.

Abbott, W. J.	Brockville.	Clarkson, F. A.	Seaforth.
Campbell, C. C.	Listowel.	Cleland, F. A.	Meaford.
Campbell, J. A.	Blenheim.	Cohoe, R. A.	Springford.
Cerswell, W. A.	Bondhead.	Colbeck, O. W.	Toronto Junction.
Chisholm, J. D.	Berlin.	Colling, F. J.	Preston.
Christie, H. A.	Garnet.	Cronyn, W. H.	London.

Second Year—Continued.

Coates, F. P.	Stratford.	McCollum, J. A.	Toronto.
Davis, G.	Cayuga.	McIlwraith, D. G.	Hamilton.
Davis, T. A.	Toronto.	McIntyre, W.	Toronto.
Dixon, J. J.	Hamilton.	MacKechnie, H. N.	Paisley.
Doran, W.	Hamilton.	McKichan, M. D.	Hamilton.
Doherty, F. J.	Eglington.	Parent, H. R.	Tecumseh.
Ferguson, C. D.	Port Stanley.	Pirie, G. R.	Hamilton.
Ferguson, J. A.	Hamilton.	Riches, F. S.	Toronto.
Gordon, G. A.	Thamesford.	Rutherford, A. B.	Owen Sound.
Hamilton, W. T.	Motherwell.	Smillie, J.	Bluevale.
Hill, E. A.	Brussels.	Smith, J. A.	Hamilton.
Hill, S. R.	Bradford.	Sproat, R. D.	Milton.
Kee, R. J.	Stanley Mills.	Stanley, G. D.	St. Mary's.
Kerr, T. E.	Toronto.	Steele, A. T.	Orangeville.
Leader, R. W.	Plattsville.	Storey, W. E.	Windsor.
Lighthall, D. S.	Picton.	Treble, C. E.	Toronto.
Moak, J. W.	Luenburg.	Wainwright, C. S.	Orillia.
Montgomery, A. H.	Brantford.	Warren, C. A. A.	Acton.
Moran, S. A.	Trenton.	Whealey, D. G.	Toronto.
Morten, C. S.	Toronto.	Whitley, L. N.	Londesboro'.
McCartney, G. E. R.	Jerseyville.	Wright, F. T.	Britannia.

Third Year.

Anderson, G. A.	Owen Sound.	Hutchison, H. S.	Toronto.
Anderson, H. T.	Petrolia.	Martindale, C. J.	Mount Healy.
Bell, C. C.	Chatham.	Montgomery, W. G.	Wroxeter.
Blanchard, N. N.	Leaskdale.	Montizambert, N. H.	Toronto.
Burns, W. T.	Toronto.	Morgan, A. E.	Kerwood.
Cameron, A. J.	Watford.	Morrison, H.	Thamesford.
Cameron, H. C.	Robroy.	McClellan, A. W.	Palmerston.
Campbell, A. C.	St. Thomas.	MacDougall, A. J. G.	Toronto.
Campbell, C. A.	Toronto.	MacDonald, F. C.	Bendale.
Carder, E. D.	St. Thomas.	McKay, W. F.	Beaverton.
Casselmann, C. C.	Huntsville.	MacKenzie, A. J.	Lucknow.
Charlton, S. E.	Galt.	MacKinnon, K.	Guelph.
Clutterbuck, H. E.	Watford.	McLoughlin, F. E.	Hamilton.
Collins, H. L.	Kincardine.	O'Brien, P. W.	Toronto.
Cook, R. W.	Fordwich.	Parry, R. Y.	Dunville.
Cooper, E. M.	Melbourne.	Revell, D. G.	Tryconnel.
Coutts, E. N.	Chatham.	Rogers, N. L.	Newmarket.
Currie, C. J.	Toronto.	Robertson, W. E.	Milton.
Dixon, I.	Walkerton.	Scott, P. L.	Paris.
Dittrick, H.	St. Catharines.	Smith, G. W.	Almonte.
Downing, H. G.	Woodstock.	Stubbs, E. J.	Stratford.
Dunlop, D. R.	Fordwich.	Snyder, G. B.	Abbingdon.
Dunnington, W. H.	Victoria, B.C.	Tatham, C. C.	Listowel.
Flath, E.	Drayton.	Trout, J. H.	Toronto.
Gilbert, H. S.	Picton.	Webb, J.	Toronto.
Hodgson, D. E.	Toronto.	White, W. R.	Toronto.
Howland, G. W.	Toronto.	Williams, J. P. F.	Georgetown.
Henrick, A. C.	Frankford.	Wilson, T. J. H.	Hamilton.

Fourth Year.

Archibald, T. D.	Halifax, N.S.	MacDonald, W.	Windsor.
Begg, C. L.	Orillia.	McFall, W. A.	Bolton.
Bremner, W. C. P.	Minesing.	MacKenzie, J. J.	Toronto.
Brethour, H. F.	Sunderland.	McKenna, C. H.	Dublin.
Burgess, C. M.	Bala.	McLeay, L.	Watferd.
Chisholm, J. S.	Wingham.	McTavish, F.	Palmyra.
Church, A. H.	Toronto.	Neely, D.	Harkaway.
Clarke, W. T.	Exeter.	Northcott, W. S.	Belleville.
Colville, N. E.	Leskard.	Peters, J. H.	Fergus.
Conche, J. B.	Glace Bay, N.S.	Piersol, W. H.	Toronto.
Connolly, E. L.	Belhaven.	Ramsey, G. H.	Toronto.
Dean, M. B.	Brighton.	Ratcliffe, W. G.	St. Catharines.
Dillane, K. M.	Tottenham.	Reid, J. B.	St. George.
Dowsley, G. W. O.	Campbellford.	Robinson, J. W.	Omagh.
Fletcher, W. G.	Chatham.	Rutherford, J. W.	Chatham.
Gow, J.	Windsor.	Schnarr, R. W.	Berlin.
Hargreave, H. G.	Toronto.	Smith, G. W. M.	Barrie.
Hawken, R. E.	St. Catharines.	Stanley, J. R.	Granton.
Holmes, C. U.	Selkirk.	Tanner, A. W.	Toronto.
Lones, E. A.	Whitby.	Turnbull, F.	Milverton.
Keith, J. P.	Lindsay.	Vivian, R. P.	Toronto.
Kelly, A. W.	Chatham.	Wagner, C. T.	Toronto.
Kitchen, A. S.	Chatham	Walters, J. J.	Elora.
Kitchen, W. W.	Toronto.	Wales, H. C.	Toronto.
Knox, A. A.	Chatham.	Wells, W.	Holland, Manitoba.
Leask, T. M.	Parkdale.	Woods, A. C.	Barrie.
McArthur, P. R.	Moorefield.	Young, F. A.	Toronto.
McCallum, S.	Sandhill.		

Occasional Students.

Amy, W. B.	Oakland.	Harding, C. A.	St. Mary's.
Armstrong, R. M.	Ottawa.	Hermiston, G. M.	Pieton.
Armstrong, T. B.	Locust Hill.	Holloway, W. T.	Clinton.
Atkinson, J. R.	Priceville.	Honsinger, E. W.	St. Thomas.
Barker, E. S.	Toronto.	Howard, G. P.	Toronto.
Bartlam, S. H.	Toronto.	Hudson, H. J.	Lucknow.
Bentley, W. J.	London.	Island, J. S.	Orangeville.
Bonnycastle, G. C.	Campbellford.	Jarvis, R.	London.
Campbell, E. C.	Belwood.	Jones, E. C.	Woodstock.
Campbell, K. C.	Toronto.	Kelsey, J. H.	Toronto.
Chambers, J. S.	Toronto.	Kennedy, L. T.	Toronto.
Colborne, H.	Chesterville.	Kennedy, S. M.	London.
Curry, B. J.	Ottawa.	Lockridge, S.	Napanee.
Dando, A. B. C.	Galt.	Mallory, F. R.	Campbellford.
Deacon, T. H.	London.	Miller, J. S.	Hamilton.
Doering, L.	Stratford.	Michell, A. C.	Toronto.
Elliott, W. F.	Toronto.	Moore, E. P.	London.
Ely, E. M.	Kingston.	Moles, E. W.	Athens.
Fitzpatrick, C. A.	Vankleek Hill.	Monro, A. E.	London.
Foster, D. M.	Guelph.	McBride, C. W.	Northfield.
Floyd, S. T.	Toronto.	McDonald, R. T.	Galt.
Gallagher, T. E.	Toronto.	McDowell, W. A.	Listowel.
Gray, J. W.	Hamilton.	McFarlane, J. M.	Georgetown.
Gunn, W. J.	Cornwall.	McGill, T. N.	Erin.

Occasional Students—Continued.

McKay, W. S.	Galt.	Simmons, E. H.	Glen Miller.
McKercher, L.	L'Orignal.	Smith, E. P.	London.
McLellan, H.	Almonte.	Smith, L.	London.
McPherson, J.	Woodstock.	Sprott, R. J.	Barrie.
Reed, J. S.	Toronto.	Tait, W. L.	Pakenham.
Rhind, J. E.	Toronto.	Vanduzer, F. C.	Hamilton.
Ross, C. M.	Hamilton.	Wilson, J. J.	Newton Robinson.
Rundell, A. E. . .	Berlin.	Wilson, W. E.	Warkworth.
Rutherford, W. J.	Aurora.	Windsor, C.	London.
Santo, A. E.	London.	Winters, H.	Carlton Place.
Sims, E. J.	Owen Sound.	Woods, W.	Brampton.

Number of students in the First Year.	73
Number of students in the Second Year.	54
Number of students in the Third Year.	56
Number of students in the Fourth Year.	55
Occasional students.	70
Total.	308

The University of Toronto.

JUNIOR MATRICULATION.

General Regulations.

The Junior Matriculation examination is held in July under the joint control of the University of Toronto and the Education Department of Ontario at centres within the Province.

A Junior Matriculation examination is conducted by the Senate in September, at the University, and at such other places as may from time to time be determined upon.

Junior Matriculation examinations will be held in June, at such places outside of the Province of Ontario as may from time to time be determined upon by the Senate. Applications for the appointment of local centres for holding such an examination must be made to the Registrar of the University not later than the fifteenth day of April in each year.

Candidates for Junior Matriculation must produce satisfactory certificates of good conduct, and of having completed the sixteenth year of their age.

All candidates for Junior Matriculation shall take the following subjects of the General Course:—English, Latin, History, Mathematics, and any two of the following:—Greek, French, German, Experimental Science (*i.e.*, Physics and Chemistry).

The examination is divided into two parts, which may be taken at the same or separate examinations.

Candidates for Part I. shall take the following subjects of the General Course:—Arithmetic, English Grammar, History of Great Britain and Canada; candidates who select Experimental Science as one of their options shall take Physics in either Part I. or Part II.

The Physics of the Third Form of the Examinations of the Education Department may be substituted for the Physics of this Part.

Candidates for Part II. shall take the following subjects of the General Course:—Latin, English Composition, English Literature, Ancient History, Algebra, Geometry, and any two of the following:—Greek, French, German, Chemistry.

Candidates for Honours and for Scholarships will be examined only on the Honour papers in a department; but candidates who fail to obtain Honours may receive pass standing on these papers.

Candidates who have already passed Junior Matriculation, shall, if they again present themselves for examination at Junior Matriculation, be regarded as having passed Part I. only.

Candidates failing in one or more subjects of either Part may take at any one subsequent examination, the subject or subjects in which they have failed.

For Pass, a candidate shall obtain one-third of the marks assigned to each paper. On each of the "Authors" papers not more than one-third of the marks shall be assigned to sight translation.

The ordinary annual examination for Pass and Honour Junior Matriculation shall commence in July, and applications therefor must be sent to the Education Department, through the Public School Inspector or the Registrar of the University, not later than May 24th. In the case of candidates for scholarships, applications must be sent to the Registrar of the University by the above-mentioned date. If the candidate desires to write at the University, the fee must accompany the application; otherwise the fee must be sent through the Public School Inspector.

Applications from candidates outside of the Province of Ontario for the June examination must be sent to the Registrar of the University not later than the first day of May.

Matriculation Equivalent Examinations.

Certificates of having passed second or first class; Junior or Senior Leaving; or Forms II., III. or IV. Examinations of the Education Department of Ontario will be accepted *pro tanto* for subjects of the General Course at any Junior Matriculation Examination.

Supplemental Matriculation Examinations.

Supplemental examinations for Junior and Senior Matriculation will be held at the University about the middle of September, at which those who are rejected at previous examinations, as well as new candidates, may present themselves; but no honours or scholarships will be awarded at such examinations. The number and the standard of the examination papers, the regulations respecting the subjects of examination, and the percentage required for Pass, shall, in each case, be the same as at the ordinary examinations. Applications therefor must be sent to the Registrar of the University not later than 1st September.

Matriculation Fees.

The fees payable are as follows:—

For Junior Matriculation, if Parts I. and II. are taken at the same time.....	Five Dollars.
For Junior Matriculation, Part I.....	Two Dollars.
For Junior Matriculation, Part II.....	Five Dollars.
For Supplemental examination in Junior Matriculation subjects in which the candidate has failed, Two Dollars for each subject; total fee not to exceed	Five Dollars.

JUNIOR MATRICULATION.

GENERAL COURSE.

PART I.

English Grammar.

The main facts in the development of the language. Etymology and Syntax, including the logical structure of the sentence and the inflection, classification and elementary analysis of words.

One examination paper.

Arithmetic.

ARITHMETIC : Elementary Rules, Fractions (Vulgar and Decimal), Interest, Discount, and easy problems in Stocks.

One examination paper.

History of Great Britain and Canada.

Great Britain and Canada from 1763 to 1885, with the outlines of the preceding periods of British History.

The Geography relating to the History prescribed.

One examination paper.

Elementary Experimental Science (Physics).

Use of metre rule; use of calipers and vernier for more accurate metric measurements (*e.g.*, diameters of wires, thickness of glass, plates, etc.); numerical calculations in the metric system.

Use of balance.

Specific gravity, by specific gravity bottle and hydrostatic balance, of liquids and of solids.

Boyle's law; barometer; diffusion of gases.

Use of Fahrenheit and Centigrade thermometers; determination of zero and boiling point; boiling point dependent on pressure.

Expansion of solids, liquids and gases; examples.

Specific heat; latent heat; easy numerical examples.

Transmutation of matter; indestructibility of matter.

Solution, precipitation, crystallization and evaporation.

One examination paper.

PART II.

Latin.

Translation into Latin of English phrases and easy sentences to illustrate Latin accidence and the common rules of Latin syntax.

Translation into Latin of easy narrative English based upon the first twenty-five chapters of the prescribed Caesar.

Translation at sight (with the aid of vocabularies) from some easy prose author.

Translation from prescribed texts, with grammatical and other questions naturally arising from the extracts set for translation.

The following are the texts prescribed:—

1900 : VERGIL, Aeneid, Bk. II ; CAESAR, Bellum Gallicum, Bk. V.

1901 : VERGIL, Aeneid, Bk. II ; CAESAR, Bellum Gallicum, Bks. II, III.

1902 : Cornelius Nepos, Lives of Themistocles, Aristides and Hannibal ; CAESAR, Bellum Gallicum, Bk. IV (omitting Chap. 17), and Bk. V, Chaps. 1-23 ; VERGIL, Aeneid, Bk. II (1-505).

Two papers will be set : (1) Translation of English into Latin. (2) Prescribed texts and translation at sight, with questions on Grammar, etc.

N.B.—The Roman method of pronouncing Latin is recommended.

English.

COMPOSITION : An essay, to which special importance will be attached, on one of several themes set by the examiners. In order to pass in this subject, legible writing, correct spelling and punctuation, and proper construction of sentences are indispensable. The candidate should also give attention to the structure of the whole essay, the effective ordering of the thought, and the accurate employment of a good English vocabulary. About two pages of foolscap is suggested as the proper length for the essay ; but quality, not quantity, will be mainly regarded.

One examination paper.

LITERATURE : Such questions only shall be set as may serve to test the candidate's familiarity with, and intelligent and appreciative comprehension of, the prescribed texts. The candidate will be expected to have memorized some of the finest passages. In addition to the questions on the prescribed selections, others shall be set on a "sight passage" to test the candidate's ability to interpret literature for himself.

One examination paper.

1900.

LONGFELLOW : Evangeline, A Psalm of Life, Wreck of the Hesperus, "The day is done," The Old Clock on the Stairs, The Fire of Driftwood, Resignation, The Warden of the Cinque Ports, Excelsior, The Bridge, A Gleam of Sunshine.

WORDSWORTH : The Education of Nature ("Three years she grew"), "She was a phantom of delight," A Lesson ("There is a flower, the Lesser Celandine"), To the Skylark, The Green Linnet, To the Cuckoo, To the Daisy, and the following Sonnets, To a Distant Friend ("Why art thou silent"), England and Switzerland ("Two voices are there"), "Milton, thou shouldst be living at this hour," Westminster Bridge, The Inner Vision ("Most sweet it is, with unuplifted eyes"), "O Friend! I know not which way I must look," To Sleep, Within King's College Chapel.

1901.

TENNYSON : Elaine, Lady of Shalott, St. Agnes' Eve, Sir Galahad, Lotus-Eaters, Ulysses, Crossing the Bar, Early Spring, "You ask me why," "Of old sat Freedom," "Love thou thy land," the six interlude songs and "Tears, idle tears," in "The Princess."

1902.

SCOTT : Lay of the Last Minstrel.

Greek.

Translation into English of passages from prescribed texts.

Translation at sight (with the aid of vocabularies) of easy Attic prose, to which special importance will be attached.

Grammatical questions on the passages from prescribed texts will be set, and such other questions as arise naturally from the context.

Translation from English into Greek of sentences and of easy narrative passages based upon the prescribed prose texts.

The following are the prescribed texts :—

1900 : Selections from XENOPHON, *Anabasis* I, in White's *Beginner's Greek Book* (pp. 304-428) with the exercises thereon ; HOMER, *Iliad* I.

1901 : Selections from XENOPHON, *Anabasis* I, in White's *Beginner's Greek Book* (pp. 304-428) with the exercises thereon ; HOMER, *Iliad* I.

1902 : Selections from XENOPHON, *Anabasis* I, in White's *Beginner's Greek Book* (pp. 304-428) with the exercises thereon ; HOMER, *Iliad* VI.

Two papers will be set : (1) Prescribed texts and translation at sight ; questions on Grammar ; (2) the translation of English into Greek.

French.

The candidate's knowledge of French will be tested by : (1) simple questions on grammar, (2) the translation of simple passages from English into French, (3) translation at sight of easy passages from modern French, and (4) an examination on the following texts :—

1900 : ENAULT, *le Chien du capitaine* ; FEUILLET, *la Fée*.

1901 : DE MAISTRE, *Voyage autour de ma chambre* ; LABICHE, *la Grammaire*.

1902 : LAMENNAIS, Paroles d'un croyant, Chaps. VII and XVII ; PERRAULT, le Maître Chat ou le Chat Botté ; DUMAS, Un nez gelé, and la Pipe de Jean Bart ; ALPHONSE DAUDET, la Dernière classe, and la Chèvre de M. Seguin ; LEGOUVÉ, la Patte de dindon ; POUVILLON, Hortibus ; LOTI, Chagrin d'un vieux forçat ; MOLIÈRE, l'Avare, Acte III, sc. 5 (Est-ce à votre cocher.... sous la mienne) ; VICTOR HUGO, Waterloo, Chap. IX ; ROUGET DE L'ISLE, la Marseillaise ; ARNAULT, la Feuille ; CHATEAUBRIAND, l'Exilé ; THÉOPHILE GAUTIER, la Chimère ; VICTOR HUGO, Extase ; LAMARTINE, l'Automne ; DE MUSSET, Tristesse ; SULLY PRUDHOMME, le Vase brisé ; LA FONTAINE, le Chêne et le Roseau.

MADAME EMILE DE GIRARDIN, la Joie fait peur.

Two papers will be set : (1) Prescribed texts and translation at sight ; questions on Grammar ; (2) the translation of English into French.

German.

The candidate's knowledge of German will be tested by : (1) simple questions on grammar, (2) the translation of simple passages from English into German, (3) translation at sight of easy passages from modern German, and (4) an examination on the following texts :—

1900 : HAUFF, das kalte Herz, Kalif Storch.

1901 : LEANDER, Traumereien (selected by Van Daell).

1902 : GRIMM, Rotkappchen ; ANDERSEN, Wie's der Alte macht, Das neue Kleid, Venedig, Rothschild, Der Bär ; ERTL, Himmelsschlüssel ; FROMMEL, Das eiserne Kreuz ; BAUMBACH, Nicotiana, Der Goldbaum ; HEINE, Lorelei, Du bist wie eine Blume ; UHLAND, Schäfer's Sonntagslied, Das Schloss am Meer ; CHAMISSE, Das Schloss Boncourt ; CLAUDIUS, Die Sterne, Der Riese Goliath ; GOETHE, Mignon, Erlkönig, Der Sänger ; SCHILLER, Der Jüngling am Bache.

LEANDER, Traumereien (selected by Van Daell), pp. 1-44.

Two papers will be set : (1) Prescribed texts and translation at sight ; questions on Grammar ; (2) the translation of English into German.

Ancient History.

1. General outlines of Greek History to the battle of Chaeronea, 338 B.C., as contained in *Fyffe's History of Greece* (Primer).

2. General outlines of Roman History to the death of Augustus, as contained in *Crichton's History of Rome* (Primer).

Geography relating to the history prescribed.

One examination paper.

Mathematics.

ALGEBRA : Elementary Rules ; Highest Common Measure ; Lowest Common Multiple ; Fractions ; Square Root ; Simple Equations of one, two, and three unknown quantities ; Indices ; Surds ; Quadratics of one and two unknown quantities.

One examination paper.

GEOMETRY : Euclid, Books I, II, and III ; easy Deductions.

One examination paper.

Elementary Experimental Science (Chemistry).

Properties of Hydrogen, Chlorine, Oxygen, Sulphur, Nitrogen, Carbon, and their more important compounds. Nomenclature. Laws of combination of the elements. The Atomic Theory and Molecular Theory.

One examination paper.

HONOUR COURSE.

Greek.

Translation into English of passages from prescribed texts.

Translation at sight of passages of average difficulty, similar to the authors read.

Grammatical questions on the passages from prescribed texts will be set, and such other questions as arise naturally from the context.

Translation into Greek of ordinary narrative passages of English, similar to the authors read.

The following are the prescribed texts :—

1900 : XENOPHON, *Anabasis* I (Chaps. I-VIII) ; HOMER, *Iliad* I, *Odyssey* XV ; LYSIAS, *Contra Eratosthenem*, and *Epitaphius*.

1901 : XENOPHON, *Anabasis* I (Chaps. I-VIII) ; HOMER, *Iliad* I, *Odyssey* XV ; LUCIAN, *Charon* (Heitland), and *Vera Historia* II (Jerram).

1902 : XENOPHON, *Anabasis* I (Chaps. I-VIII) ; HOMER, *Iliad* VI ; *Odyssey* XVII ; LUCIAN, *Charon* (Heitland), and *Vera Historia* II (Jerram).

Two examination papers.

Latin.

Translation into English of passages from prescribed texts.

Translation at sight of passages of average difficulty, similar in style to the authors read.

Grammatical questions on the passages from prescribed texts will be set, and such other questions as arise naturally from the context.

Translation into Latin of easy passages of English, similar in style to the authors read.

The following are the prescribed texts :—

1900 : CAESAR, *Bellum Gallicum*, Bk. V ; VERGIL, *Aeneid*, Bk. II ; HORACE, *Odes* III, IV ; LIVY XXI.

1901 : CAESAR, *Bellum Gallicum*, Bks. II, III ; VERGIL, *Aeneid*, Bk. II ; HORACE, *Odes* I, II ; LIVY XXI.

1902 : CAESAR, *Bellum Gallicum*, Bk. IV, omitting Chap. 17, and Bk. V Chaps. 1-23 ; VERGIL, *Aeneid* II, lines 1-505 ; HORACE, *Odes* I, II ; CICERO, *Pro Lege Manilia*, *Pro Marcello*, *Philippic* XIV (Harper's Text).

Two examination papers.

English.

COMPOSITION : An essay, to which special importance will be attached, on one of several themes set by the examiner.

One examination paper.

LITERATURE : The candidate will be expected to have memorized some of the finest passages. Besides questions to test the candidate's familiarity with, and comprehension of, the following selections, questions may also be set to determine within reasonable limits his power of appreciating literary art.

RHETORIC : Reading of prose authors in connection with the study of rhetoric.

One examination paper.

1900.

LONGFELLOW : Evangeline, A Psalm of Life, Wreck of the Hesperus, "The day is done," The Old Clock on the Stairs, The Fire of Driftwood, Resignation, The Warden of the Cinque Ports, Excelsior, The Bridge, A Gleam of Sunshine.

SHAKESPEARE : Macbeth.

MILTON : L'Allegro, Il Penseroso, Lycidas, On the Morning of Christ's Nativity.

WORDSWORTH (Palgrave's Golden Treasury of Songs and Lyrics) The Education of Nature ("Three years she grew"), "She was a Phantom of delight," A Lesson ("There is a flower, the Lesser Celandine"), To the Skylark, The Green Linnet, To the Cuckoo, To the Daisy, and the following Sonnets, To a Distant Friend ("Why art thou silent"), England and Switzerland ("Two voices are there"), "Milton, thou shouldst be living at this hour," Westminster Bridge, The Inner Vision ("Most sweet it is with unuplifted eyes"), ("O Friend ! I know not which way I must look"), To Sleep, Within King's College Chapel.

1901.

Tennyson : Elaine, Lady of Shalott, St. Agnes' Eve, Sir Galahad, Lotus-Eaters, Ulysses, Crossing the Bar, Early Spring, "You ask me why," "Of old sat Freedom," "Love thou thy land," the six interlude songs and "Tears, idle tears," in "The Princess."

MILTON : Paradise Lost, Book VII.

SHAKESPEARE : Julius Caesar.

1902.

SCOTT : Lay of the Last Minstrel.

MILTON : Paradise Lost, Book I.

SHAKESPEARE : The Merchant of Venice.

French.

The prescription of work in grammar, the translation of English into French and sight translation is the same for Honors as for the General course, but the examination will be of a more advanced character.

The following are the prescribed texts:—

1900: ÉNAULT, le Chien du capitaine; FEUILLET, la Fée, le Roman d'un jeune homme pauvre; LABICHE, Voyage de M. Perrichon.

1901: DE MAISTRE, Voyage autour de ma chambre; LABICHE, la Grammaire; ERCKMANN-CHATRIAN, Madame Thérèse; LABICHE, la Poudre aux yeux.

1902: LAMENNAIS, Paroles d'un croyant, Chaps. VII and XVII; PERRAULT, le Maître Chat ou le Chat Botté; DUMAS, Un nez gelé, and la Pipe de Jean Bart; ALPHONSE DAUDET, la Dernière classe and la Chèvre de M. Seguin; LEGOUVÉ, la Patte de dindon; POUVILLON, Hortibus; LOTI, Chagrin d'un vieux forçat; MOLIÈRE, l'Avare, Acte III, sc. 5 (Est-ce à votre cocher ... sous la mienne); VICTOR HUGO, Waterloo, Chap. IX; ROUGET DE L'ISLE, la Marseillaise; ARNAULT, la Feuille; CHATEAUBRIAND, l'Exilé; THÉOPHILE GAUTIER, la Chimère; VICTOR HUGO, Extase; LAMARTINE, l'Automne; DE MUSSET, Tristesse; SULLY PRUDHOMME, le Vase brisé; LA FONTAINE, le Chêne et le Roseau.

MADAME EMILE DE GIRARDIN, la Joie fait peur.

MÉRIMÉE, Colomba.

German.

The prescription of work in grammar, the translation of English into German and sight translation is the same for Honors as for the General course, but the examination will be of a more advanced character.

The following are the prescribed texts:—

1900: HAUFF, das kalte Herz, Kalif Storch; EICHENDORFF, Aus dem Leben eines Taugenichts; WILHELMI, Einer muss heiraten; BENEDIX, Eigensinn.

1901: LEANDER, Träumereien (selected by Van Daell); BAUMBACH, der Schwiegersohn; GERSTÄCKER, Germelshausen; ELZ, Er ist nicht eifersüchtig; WICHERT, Post Festum.

1902: GRIMM, Rotkäppchen; ANDERSEN, Wie's der Alte macht, Das neue Kleid, Venedig, Rothschild, Der Bar; ERTL, Himmelsschlüssel; FROMMEL, Das eiserne Kreuz; BAUMBACH, Nicotiana, Der Goldbaum; HEINE, Lorelei, Du bist wie eine Blume; UHLAND, Schäfer's Sonntagslied, Das Schloss am Meer; CHAMISSE, Das Schloss Boncourt; CLAUDIUS, Die Sterne, Der Riese Goliath; GOETHE, Mignon, Erlkönig, Der Sänger; SCHILLER, Der Jüngling am Bache.

LEANDER, Träumereien (selected by Van Daell), pp. 1-44.

EBNER-ESCHENBACH, Die Freiherren von Gemperlein; WILHELMI, Einer muss heiraten.

BENEDIX, Eigensinn.

History.

English History from the discovery of America to 1763.

General outlines of Greek History to the battle of Chaeronea, 338 B.C. Special attention to be paid to the following : General characteristics of Greece and the Greeks ; ancient institutions ; constitution of Athens and Sparta ; Persian wars ; growth of the Athenian Empire ; characteristics of the age of Pericles ; Peloponnesian wars ; rise of Thebes ; Theban supremacy ; rise of Macedon ; downfall of Greece.

General outlines of Roman History to the death of Augustus. Special attention to be given to the following : General characteristics of Italy and the Roman people ; struggle of the Plebeians for political and social equality ; conquest of Italy ; Punic wars ; how Rome governed and was governed ; internal and external History of Rome from the downfall of Carthage to the death of Augustus.

The Geography relating to the History prescribed.

One examination paper.

Mathematics.

ALGEBRA : Elementary Rules ; Highest Common Measure ; Lowest Common Multiple ; Fractions ; Square Root ; Simple Equations of one, two and three unknown quantities ; Indices ; Surds ; Quadratics of one and two unknown quantities ; Theory of Divisors ; Ratio, Proportion, and Variation ; Progressions ; Notation ; Permutations and Combinations ; Binomial Theorem ; Interest Forms ; Annuities.

One examination paper.

GEOMETRY : Euclid, Books I, II, III, IV, and VI ; Definitions of Book V ; Deductions.

One examination paper.

TRIGONOMETRY : Trigonometrical ratios with their relations to each other ; Sines, etc., of the sum and difference of angles with deduced formulas ; Use of Logarithms ; Solution of Triangles ; Expressions for the area of Triangles ; Radii of circumscribed, inscribed, and escribed circles.

One examination paper.

PROBLEMS : One paper.

Physics.

MECHANICS : Measurement of velocity ; uniformly accelerated rectilinear motion ; metric units of force, work, energy and power ; equilibrium of forces acting at a point ; triangle, parallelogram, and polygon of forces ; parallel forces ; principle of moments ; centre of gravity ; laws of friction ; numerical examples.

HYDROSTATICS : Fluid pressure at a point ; pressure on a horizontal plane ; pressure on an inclined plane ; resultant vertical pressure, and resultant horizontal pressure, when fluid is under air pressure and when not ; transmission of pressure ; Bramah's press ; equilibrium of liquids of unequal density in a bent tube ; the barometer ; air-pump ; water-pump, common and force ; siphon.

ELECTRICITY : Voltaic cells, common kinds ; chemical action in the cell ; magnetic effects of the current ; chemical effects of the current ; voltmeters ; electroplating ; astatic and tangent galvanometers ; simple notions of potential ; Ohm's law ; shunts ; measurement of resistance ; electric light, arc and incandescent ; current induction ; induction coil ; dynamo and motor ; the joule and watt ; electric bell ; telegraph ; telephone ; elements of terrestrial magnetism.

One examination paper.

Chemistry.

Chemical Theory. The study of the following elements, with their most characteristic compounds, in illustration of Mendelejeff's Classification of the Elements : Hydrogen ; Sodium, Potassium ; Magnesium, Zinc ; Calcium, Strontium, Barium ; Boron, Aluminium ; Carbon, Silicon, Tin, Lead ; Nitrogen, Phosphorus, Arsenic, Antimony, Bismuth ; Oxygen, Sulphur ; Fluorine, Chlorine, Bromine, Iodine ; Manganese, Iron. Elementary Qualitative Analysis.

A practical examination shall be held in connection with this subject, a pure salt will be sent out for qualitative analysis, and the candidate shall be allowed the use of an analytical table.

One examination paper.

Biology.

1. **ELEMENTS OF ZOOLOGY :** Thorough examination of the external form, the gills, and the viscera of some common fish. Study of the prepared skeleton of the same. Demonstration of the arrangement of the muscular and nervous systems and the sense-organs, as far as these can be studied without the aid of the microscope.

Comparison of the structure of the frog with that of the fish. The skeleton of the pectoral and pelvic girdles and of the appendages of the frog, should be studied, and the chief facts in the development of its spawn till the adult form is attained should be observed.

Examination of the external form of a turtle and a snake.

Examination of the structure of a bird.

Study of the skeleton, and also of the teeth of a cat or dog.

Study of the crayfish as a type of the Arthropods.

Comparison of the crayfish with an insect (grasshopper, cricket, or cockroach) ; also with a millipede and a spider.

Examination of an earthworm.

Study of a fresh-water mussel.

The principles of zoological nomenclature as illustrated by some of the common fresh-water fish, such as the sucker and herring, bass and perch.

Study of an ameba, or paramaecium as a type of a unicellular animal.

The modifications of the form of the body in vertebrates in connection with different methods of locomotion. The natural habits of the various animals examined.

2. ELEMENTS OF BOTANY : The examination will test whether the candidate has practically studied representatives of the flowering plants of the locality in which the preparatory school is situated, and representatives of the chief subdivisions of cryptogams, such as a fern, a lycopod, a horsetail, a liverwort, a moss, a lichen, a mushroom, and a chara.

An elementary knowledge of the microscopic structure of the bean and the maize. Attention will be given in the examination to drawing and description of parts of plants supplied, and to their classification. Comparison of different organs, morphology of root, stem, leaves and hair, parts of the flower, reproduction of flowering plants, pollination, fertilization, and the nature of fruit and seeds.

A practical examination shall be held in connection with this subject. The material for examination will consist of two plants, a microscopic section and an animal.

Two examination papers.

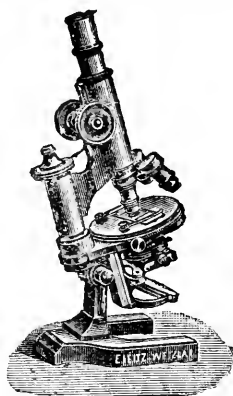
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